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<141> 1999-05-05

<150> PCT/US98/23435

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 <212> DNA  
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&lt;210&gt; 21

&lt;211&gt; 1837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

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&lt;210&gt; 22

&lt;211&gt; 1054

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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&lt;211&gt; 1066

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

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&lt;210&gt; 24

&lt;211&gt; 928

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 802  
 <212> DNA  
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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 30  
 <211> 1226  
 <212> DNA  
 <213> Homo sapiens

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<210> 31  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<400> 31						
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aaaaaaaaaa	aaaa					1094

<210> 32  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n.equals a,t,g, or c

<400> 32						
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tccttagata	ttaaaaccta	tactaaagtt	tattacaacc	cattttgaag	atattaaaaac	960
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aaaaaaaaaa	actcgag					1037

&lt;210&gt; 33

&lt;211&gt; 1376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 33

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&lt;210&gt; 34

&lt;211&gt; 1220

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (803)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 34

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<210> 35  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (537)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (880)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1115)  
 <223> n equals a,t,g, or c

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<210> 36
<211> 1026
<212> DNA
<213> Homo sapiens
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<210> 37
<211> 832
<212> DNA
<213> Homo sapiens
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<210> 38
<211> 706
<212> DNA
<213> Homo sapiens
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```
<210> 39
<211> 1347
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (334)
<223> n equals a,t,g, or c
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<210>	40
<211>	1467
<212>	DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 40

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&lt;210&gt; 41

&lt;211&gt; 914

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 41

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aaaaaaaaaa	aaaa					914

&lt;210&gt; 42

&lt;211&gt; 1131

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

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&lt;211&gt; 1333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (411)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1264)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1319)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 43

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1166  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
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&lt;210&gt; 48

&lt;211&gt; 1038

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

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&lt;210&gt; 49

&lt;211&gt; 1176

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 49

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<212> DNA
<213> Homo sapiens
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<210> 51
<211> 1437
<212> DNA
<213> Homo sapiens
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (3)  
 <223> n equals a,t,g, or c

<400> 52  
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 ctagcaggca ctggagccta tttctggaat ttcatgttgc accattgccc tctctgtttg 1260  
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<210> 53  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
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 tgtatagcta tggtaaataa ggctgcatgg tattaagaa aggacatata tgaatgaaac 540  
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 agaagacaat ttattggagg aaagacagcc ttttcaacaa atggtactat aacaattaga 660  
 tatccatagg caaaaaaaaa aaaaagaatc ttgatctaag gctcacacct tatataaaat 720  
 aatattaaac tcatggccag gcacagtgc tcatgcctat aatcccaata cactgggagg 780  
 ctgaggcaag agtatcactt gaggcagggt gttcaagact agcctgggca acacagtga 840  
 actctatctc tacaataaaa ttataaacta gctgggcatg gtggcacatg cctgtagtca 900  
 caactactca cgaggctgag aagatcactt aagctgagtt gttcaagggt ctaatgagct 960  
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aaaaaaaaa actcgta

1037

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 <212> DNA  
 <213> Homo sapiens

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 tggtttgtgt tgtgtgtcag ggcgcagggg tttctgcttt cactcaagtt aatttatttt 180  
 ccttttccctt ggtaattgtg aaaaaacaaa ataaaacctc ctgtgagcct tttggaactt 240  
 ctggaaaagt ccctttgctg tgarcsagt actctgagaa gagctttgag cagggctgga 300  
 aaccattttt ctgcaacctt ttctttcctg gggatgtgtt ggggtgcacac aggtctccca 360  
 caaggcaaaag gctgtccctg gatggttggc aaaatgcgcc acaccagagt gggtttgtgt 420  
 tggcaggagg catgaraaaa ccttgctgat ggcaggggag gacggcgaca ccacgatggg 480  
 aacaaaatcc tctccttac ytctaattac aaagaggaaa aagtcactga aaaaaaagt 540  
 ttaaaatgtc ttaataataa agtcatatat aatccaaagc taccaaaggc caagtgttta 600  
 gggggaaagt tctggtgggt aacccctt cagggggatt taaagtgggt gtggtgagga 660  
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 cctgtagtct cagctacttg ggaggctaag gttggagagt tacttgagcc taggaggttg 1260  
 aggtctcagt tagccatgat tgtacctctg tacgccagcc tgggtgacaa agcaagagcc 1320  
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<210> 55  
 <211> 1347  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 catcagcact ctttgcacaa tggatggatg ttaattctatt ggcttcagag ctcatctatt 180  
 ctaagtgcct ttgtattgat aaactcccca gtgactacag ggattcagaa gagctgttgc 240  
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 acgttgggtg ctttgcagtg gttgaatata gcactgcgga gcagctgaag aggtccagca 360  
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 cgcaggggag aagtacatta gcagcattga tagcggctca acgtgtgatg cacagtaatc 480  
 aaaagggtt acttccagag ccaaatccag tacaaattat gaaaagttaa aacaacctg 540  
 ccatgttgca agttcttcta cagccccagt tatgtggacg agctgttaaa ccaggtagtg 600  
 accatgtatg tatactgatt aattaaagaa tgctagcatg aagttaattt tttcacatgt 660  
 gaaatatgga aaaatacatt gatttgtgaa aaatatattt aaattagtagt aaaatatata 720  
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 atctttataa tatcagtata cattaaatat ctacctattt agtattcttt ctctagtaag 1140

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ataggtttta	aaaaaaaaaa	aaaaaaa				1347

<210> 56  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
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ggagatggag	gtgtgagcag	catggtctgt	tgtggttttt	tcttgttgtg	gagtagagtt	180
agatcataca	tgaagctctc	tgggcatagg	tggagtagca	gctgtccaca	ccattgctat	240
tcaaagtgtg	gtttgcacac	cagtaatgga	aaatcatctg	tgcacactgt	ttagtttaac	300
tgatactttt	tttttcatag	caagatttct	taatgaagga	agtaatgtat	tgatttacat	360
tctgactcat	tgtctttatc	ttgtctttga	tcagtttgta	gactggcact	ggtccacact	420
ttgaataaca	ctattcttca	ttctactttc	catgtaccgg	gatgccaggc	aaacagggag	480
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tgagctcagg	agtittgagac	cagcctgggt	aacataggga	taccttggtc	ctacttaaaa	660
aaaaaaaaaa	aaaaattagc	tgggtgtggt	tgtgcacacc	tgtagttcca	gctattccar	720
aggctgaggg	aggaggatag	gttgagcatg	ggargttgag	gctgcartgt	gccttgatgg	780
cgccactgca	ctccatcctg	gttgacaaaa	aaaaaaaaaa	aa		822

<210> 57  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (536)  
 <223> n equals a,t,g, or c

<400> 57						
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ctgtcccgtg	accaaactcc	tctctgtccc	cagctggact	cctctagatg	ctcagatgct	120
ccttctcttc	tttccttctc	tgtcacacca	ttcttctgtt	ccttggtctt	tctgtctatc	180
tccttgtgga	gscawagggt	tggggtttat	atgagtacag	gataggtgac	atgggtggatc	240
aaaaggcaac	attttgtgtg	caaaaacagg	aatgcctgtt	cccattaggg	tcatgggttk	300
ccaggggtga	gggtggggcc	tttgctaggg	aaccaccctc	ttctaccagg	tattttcctg	360
tctcctgtct	gtatcaatag	gtacacaata	twtattaaat	taatkaatga	ctatacatta	420
tgaaatggga	aatgcaaggt	ataaaggaga	attgctgtcc	ttgaaaagaa	atttagtttg	480
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<210> 58  
 <211> 1262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

&lt;400&gt; 58

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ttattttcatt	tcctcccat	acaaatttga	tgagcaggta	cacactttct	ttaaaacatt	300
ccaagtgtat	atagattcag	tgcttatttc	tcagcttttt	ctttcttaag	ttcatctctg	360
tcacctagct	tttattttta	atactcaatt	tctgaggctt	aggaaatact	tgttacctta	420
agcgtttttt	tgtttttttt	ttgttggtgt	tttgtttttt	tttagtgtat	ttgctattga	480
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tcaggctcat	gataacttac	gggataacaa	tagtaggtta	caccgagtgc	ttacaattca	720
gtgggcacgg	tcaaagtgt	ttttgtaagt	tctattttaat	acttgcgaca	accctgagat	780
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caccctccct	ctaaccagat	tgcattcccaa	gcttctatag	aaactctggt	accactcgty	1260
cc						1262

&lt;210&gt; 59

&lt;211&gt; 1269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 59

gaattcggca	cgagarataa	cgagatgcta	ctagtctggg	taccagctgt	acgaggaagc	60
atacagctaa	gtaggctcagt	gattaccaat	cagtgtgggtg	agtacatgaa	acagcaggca	120
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ggcttttagaa	agtcaaaaatt	ctaagactaa	aagaccttca	agagagaaat	taataaaaaa	1260
aaactcgta						1269

&lt;210&gt; 60

&lt;211&gt; 1829

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 60

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				1829

&lt;210&gt; 61

&lt;211&gt; 1112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

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 tgctaagtta aaaaaaaaaa aaaaaaactc ga 1112

<210> 62  
 <211> 1674  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (734)  
 <223> n equals a,t,g, or c

<400> 62  
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 <211> 1045  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1182  
 <212> DNA  
 <213> Homo sapiens

<400> 65						
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cctggatcag	ggaagactat	cttggctctt	aggatcatgg	agaagatcag	gaatgtgttt	240
cactgtgaac	cggctaact	tctctacatc	tgtgaaaacc	agcccctgaa	gaagtgtgtg	300
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<210> 66
<211> 675
<212> DNA
<213> Homo sapiens
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<210> 67
<211> 1105
<212> DNA
<213> Homo sapiens
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<210> 70  
 <211> 887  
 <212> DNA  
 <213> Homo sapiens

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 <211> 864  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<400> 72

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 <222> (712)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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<220>  
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&lt;210&gt; 74

&lt;211&gt; 1276

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

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aaaaaaaaaa	ctcgta					1276

&lt;210&gt; 75

&lt;211&gt; 1144

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 75

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caaaagtatt	gcaagttgaa	aatgcatttc	atacccagct	aagttcatca	tttgktcaaa	300
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<212> DNA
<213> Homo sapiens
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<210> 77
<211> 1065
<212> DNA
<213> Homo sapiens
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<210> 78  
 <211> 1126  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1124)  
 <223> n equals a,t,g, or c

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 <211> 984  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (232)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (332)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (333)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (943)  
 <223> n equals a,t,g, or c

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 <211> 1247  
 <212> DNA  
 <213> Homo sapiens

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<210> 81

<211> 958  
 <212> DNA  
 <213> Homo sapiens

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<210> 82  
 <211> 1392  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
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<210> 83  
 <211> 1155  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 83

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aaaaaaaaaa	aaaaa					1155

&lt;210&gt; 84

&lt;211&gt; 1373

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (877)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (897)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 84

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&lt;210&gt; 85

&lt;211&gt; 1258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 1318

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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<210> 87  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (977)  
 <223> n equals a,t,g, or c

<400> 87						
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<210> 88  
 <211> 1863  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (82)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (112)  
 <223> n equals a,t,g, or c

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<210> 89
<211> 2086
<212> DNA
<213> Homo sapiens
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&lt;210&gt; 90

&lt;211&gt; 891

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

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&lt;210&gt; 91

&lt;211&gt; 1974

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 91

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<210> 92  
 <211> 1423  
 <212> DNA  
 <213> Homo sapiens

<400> 92						
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<210> 93  
 <211> 1365  
 <212> DNA  
 <213> Homo sapiens

<400> 93

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&lt;210&gt; 94

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 94

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&lt;210&gt; 95

&lt;211&gt; 938

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (479)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 95

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&lt;210&gt; 96

&lt;211&gt; 928

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

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&lt;210&gt; 97

&lt;211&gt; 1715

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; n equals a,t,g, or c

0361353.03204

&lt;400&gt; 97

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&lt;210&gt; 98

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 1541

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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<212> DNA  
<213> Homo sapiens

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<211> 947  
<212> DNA  
<213> Homo sapiens

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<400> 103						
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tgtttgcaaa	attgagaagg	aaggagaatc	gggaagtgg	tatttatggt	gtctcaatat	1200
gtaagggtaa	aaaaaaaaaa	aaaaaactcg	a			1231

&lt;210&gt; 104

&lt;211&gt; 1242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (288)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 104

ttcgtateca	ctaggatggc	tctaatacaat	aacaaagtat	tgtcaaggat	gtagaaaaat	60
tggagccctc	ctgccttggg	gggagtgtaa	tatgggtgcca	gatacaacct	ccatcctgaa	120
gctcatctgt	atgcttcctg	tttgtgtttt	taaactttta	ctatatcttt	atgtcctcat	180
aagaatatgt	actatcattt	ggtgttttaa	agtgtacata	aatgctgtca	tcctgaacaa	240
atcctctcgc	taactgcctc	tttaactcta	tactatattt	tcaagatntg	tccatgttga	300
tccacgtagc	tccctagtgc	cctttaacct	ctataagata	ttctgttgcg	tcaatatatg	360
acaatttatg	catgctttgt	tgacaggtaa	ttggattttt	agtgttttgc	ctttacaaaa	420
atcactgcat	ctttttgcaca	tgtctacttg	tgcatatgaa	ctgaggtaaa	attgctgggc	480
cttactgtaa	atatgttgtt	ttaattcact	ttgctgtgct	gtaacagaat	accatagact	540
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tccattcaca	ggttcgggtg	tctggggaar	actttcttca	cacatcctca	cttggcagaa	660
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gtagcagtga	actgagatcg	taccattgca	ctccagcctg	ggtgacagag	cgagactctg	1200
tctcagaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaactcg	ta		1242

&lt;210&gt; 105

&lt;211&gt; 1151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

gcagggacag	ccccacgcat	gggaggtggg	ggccagccat	caccccaggg	tgaatttctc	60
taagagcagt	cctaggccag	ggggtgagtg	tgggaaagtc	agggccgttt	ccatcagtta	120



acgttttcaga	gcggtttccc	gctggaagtg	ctggaaatac	ccagatgcca	tctgtagcat	180
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gtggaagcat	cctgtcagtc	cactgtacag	tgggggtggag	ccgcagccag	ggtgggtgtg	300
ccgttttgatt	ggtcacggaa	tgaacagggc	aaaggctcact	aagtagatat	gatactgcaa	360
gtaggattgt	ggatcataggt	atTTTTatga	atttgtgtta	tgtgaagttg	aggatttgaa	420
tgttgtgatt	attatatcca	gataaagttc	tagcctggca	cagtgcaggc	acgtgcctgt	480
ggtcccagct	gcttgaagtg	ggaggagagc	ttcagctcag	gatttccagg	ctatagggag	540
ctgtggtccc	accattgcac	cccagcctgg	gtgacagagt	gagaccccat	ctcaaaaaga	600
aaagaaaaga	ggctaggcgc	agtggctcag	gcctgtaatt	caagcacttt	gggaggctga	660
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actgcccccc	ccgccccaaa	aaaataaaaa	tacaaaaatc	agtcgggcgt	ggtggctcac	960
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gagaccagcc	tggccaacat	ggtgaaaatt	gggaggccga	ggcgggcgga	tccaaggtc	1080
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aaaaactcgt	a					1151

<210> 106  
 <211> 1628  
 <212> DNA  
 <213> Homo sapiens

<400> 106						
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aactcccaaa	aattctgtaa	cgggggccctt	gagccctat	gcttgggtcc	attcccaaac	180
tgtggagtgt	acttttcattt	tcaataaatt	tctgcttttg	ttgcttcatt	ctttccttgc	240
tttgtttgag	cgttttgtcc	aattatttgt	tcaagacgcc	aagaacctgg	sacaccctcc	300
accggttaaca	ctcttacaat	tatgcagttg	tgcagtgcat	agcccggtgc	actatatgtg	360
gcagtgttgc	ccacttagca	atgaggagcg	catattttcc	tgcattatca	ccaaaacaat	420
gttatcatct	tttatttatt	attatttttt	tgagtcaggg	ccttgccctg	tcaccaggc	480
tggagtgcag	tgacgcagtc	tcaagtcact	gcaacctctg	cctgtcaggc	tgaggtgagg	540
tgatcacttg	agtcaggag	tttgagacca	gcctgggcaa	catggcaaaa	ccccatctct	600
acagaaaata	attagctgga	tgtggtgatg	catgcctgta	gtcccagcta	yticaggagac	660
tgagatggga	agatcacttg	agccagggar	ttagargctg	cagttagcta	tgatcatgcc	720
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aagaaaaagg	aaagtaaaaa	ttgctaaaca	cytccaaagt	ctatgtagga	aatatgtaaa	840
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gacagaatat	cytaggcctt	tgcttcaata	gctggagcct	gcttgttggg	gtgcccttag	960
ttgctctcat	ccgaacctaa	gagtttagtc	tagaatgaaa	atttactagc	ctgcaaaata	1020
gctcacttta	tctattcttt	tatcagcttg	cctgactacc	taggtcatag	gtcaaaatact	1080
taaaaagccc	ttgagcagac	tataattgca	atgcattatg	ggctgcaaca	aaatgcaccg	1140
agacaaccct	aaagaaaaca	cccaaaaccc	ctacctggcc	aggcgcgggtg	gctcatgcst	1200
gtaatcccag	cactttcgga	ggccgaagcg	ggtggatcac	ttgtcaggag	tttgagacca	1260
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tctttgggtt	tggacgggtg	agttttgttt	tcacagtcta	gactctagat	gtgaagaact	1500
ttgatcatat	caccaaagga	gatggtggta	tgcaatttta	taagtaaaaa	tacactagtg	1560
tcagtttttt	ttacaaggga	aacctgattt	gcactctttt	aattaaaaaa	aaaaaaaaaa	1620
actcgtag						1628

<210> 107  
 <211> 1465  
 <212> DNA

<213> Homo sapiens

<400> 107

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gtctcgaaaa	aaaaaaagtt	ggaagcagaa	gtaaaaaaca	tggtaaagaa	tgagaactaa	120
ataaatataa	taattgagag	gtctgcatta	gatgtggcag	ggagaacaag	caaaaagaga	180
tttcagagaa	gatcactgga	attggcagag	gccttgaagg	gcagagtcta	gcatacagaa	240
gatgtaaagc	cacattctgt	gaaggtaagt	agatgtgttt	acctcttttg	cactgtactg	300
gtgcattatg	gggtaaatr	gtattacttt	tcctgtattg	cttagcacag	agttttgcct	360
atagcaggca	ccagactgtg	ggcttggtag	tacatgacta	ttggtgatta	cagatcaaaa	420
aggacttgaa	atgatcagtt	taaggtcttg	atgggtattg	aagactcaaa	ggatgatggc	480
accctgggag	tgatccacag	aaggacagat	tatttgaaga	tgtaataaac	ttaagacaac	540
atggatgtta	aatgatgaaa	aaaagttgga	tggaaaataa	accattggat	ctgcytctgg	600
agtccaagaa	gaatattatt	cttcctacct	cccccttact	ctggctcttc	ctattgtagc	660
cacatgggtc	agtaatgcca	ttgaaaaaca	aaattttaga	ctaagtgggg	tcgcagaaat	720
tttgggtctat	cttaaaattga	tgacatctta	ttaaagaaty	tattgtataa	agtgtgctta	780
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tgagtttcaa	taaaattttt	tttaaatataa	aattagcctg	tggttaagaat	tgaaatggag	960
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gaaatattaa	aacttgaaa	tactaagact	tgatgatgaa	ctagatgtgt	tagataagag	1260
atagcatgga	gtctagtaaa	agttctgttt	ttctcactcg	tgtgactgcc	tcaataaacac	1320
aaagcttgat	aggaaataaa	catgagatag	cacatggatc	tattacaagt	ttttgaaatt	1380
gagcttgaaa	agctacttca	aaaaataaat	tctaggccag	gtgtgagycc	atgcgcttga	1440
ttaaaaaaa	aaaaaaaaaac	tcgta				1465

<210> 108

<211> 1265

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (766)

<223> n equals a,t,g, or c

<400> 108

ggggcagatg	gaaatgtctc	ggattttgat	aatgaagaag	aggaacagtc	agtcctctcc	60
aaagtggatg	agaatgacac	ccgtccagat	gtggagccac	cactgccatt	gcagatccaa	120
atagccatgg	acgtgatgga	acgtctcatc	cactgtgtgt	cagataaaaa	tctgcaaate	180
cgcctgaagg	tcttggatgt	gctggatctg	tgtgtgggtg	ttcttcagtc	ccacaaaaac	240
cagctgcttc	ccttggctca	tcaggcctgg	ccctcgctcg	ttcaccgact	cacacgggac	300
gccccctgg	cagtgccttag	agccttcaag	ttttacgtac	cctgggaagc	aagtgtggtg	360
actttcttcg	cagccggttc	tgcaaagatg	tcctgccaac	gctggctggc	ttcctagtca	420
cccaggcccc	catcagtgcc	agggctggac	cagtttactc	gcacacgctg	gccttcaagt	480
tgcagctggc	tgtcttacag	ggcctgggac	ccctctgtga	gagactggac	ctaggtgagg	540
gtgacctgaa	taaagtggct	gatgcctgct	tgatttacct	cagtgtcaaa	cagcccgtga	600
aattacaaga	ggctgcccag	agcgtcttcc	tccacttgat	gaaggtggac	ccagactcca	660
cctggttcct	cctgaacgag	ctttactgcc	ccgtgcagtt	cacacctccc	caccccagcc	720
tccaccctgt	gcagctgcas	ggggccagcg	ggcagcagaa	cccctnacac	gaccaactgt	780
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tcccctactg	ccagccagaa	gctgggctga	ccccaccccc	gccataggcg	gtggcagcgg	900
cagcagagaa	ggtgaattag	ttagccaatc	gatttataaa	ttgatcgatc	acacaactgc	960
ttagaaatgg	attgaaggaa	agtagctgac	tattatttat	atttcatacc	ttgtgttttc	1020
aagtgcacatt	gtctgggtggc	tctaagggtt	taacccttta	gcctaccatc	tctatagccc	1080

```
<210> 109
<211> 1006
<212> DNA
<213> Homo sapiens
```

```
<210> 110
<211> 2214
<212> DNA
<213> Homo sapiens
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<400>	110						
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cagcaagggg	gattcagtg	caatgcatca	acaaaaaaga	caaccagagt	tagtggagg		180
aaatcttct	gtttctgtg	tccccacgga	gctcatattt	tatgcagatg	atcagtcAAC		240
acataagcaa	gtgttgacac	tgtacaatcc	ctatgagttt	gccttaaagt	tcaaagtttt		300
gtgtactact	ccaaataagt	atgttgctgt	tgatgctgca	gggtgcagtaa	agcctcagtg		360
ttgtgtggat	attgtgattc	gtcatcgaga	tgttcgatcc	tgtcactatg	gtgtaataga		420
caaattccgt	ctccaagttt	ccgagcaaa	ccaaaggaag	gctttggggg	agaaaagagg		480
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aattattttga	agaaattctt	tttatattcta	yacctgttgc	gtaagaaact	ttaaacacatt		900
kgttattttc	tcaccttttt	ttctaattca	ctttgattgt	taggggtcat	gtatgcttcg		960
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tgccatggtg	tttctaaaaa	taagtgtttt	accattaatg	tgtagagggc	aaacaaagca		1140
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aatcttgtga	attacagaac	aggttgtggg	ccagacacca	agaatcatag	gggttttttt		1260
ttaaaaaac	taataagaagt	aggttgacct	ctctcttttq	tctaagaggt	ctaaaggaag		1320

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<210> 111
<211> 1453
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (946)
<223> n equals a,t,g, or c
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```
<210> 112
<211> 1552
<212> DNA
<213> Homo sapiens
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<220>  
 <221> SITE  
 <222> (1035)  
 <223> n equals a,t,g, or c

<400> 112  
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 agtgacgtca atgactgttt gctctgtgat accgtttcaa aaatccaaaa tgcagacttt 120  
 tctctgtgcc atgcaggatg cagctgtgtg tgatattggt tacagtaata tttctttctc 180  
 aaagtagcag gcttggttaag gaaaagataa gcaacacatc tggggaaaaag ggcagggtggc 240  
 cagcaatcga tgtggtagct ctttgccccct ctcggacagc aggaattagc ttccccaggc 300  
 attttctgta tgtgagttgt attgtgggat gtacaaaat catctgttcc tttgggtttc 360  
 caggccagta gctctctatt ttgggttcaa acatgggttc tcaggccggg cgcggtggct 420  
 cacgcgtgta atccccggcac tttgggaggg caagggcggg ggatcacgag gtcgggagat 480  
 ggagaccatc ctggctaaca tggtgaaacc ccaactctac taaaaataca aaaaattagg 540  
 caggcatggt ggcgggtgcc tgtgktccc gctactcagg aggctgaggc aggagaatgg 600  
 tgtggacccg ggagggttga ggttgacagta agccgagatt gcaccactgc mctccagcct 660  
 gggcaacaga gcgagactcc atctcaaaaa acaaacaaac aaacaaacaa aaacatgggt 720  
 tctcaaaagg catgcccact gtctcccatg gagcttgaca gcccatgcca ttagctctca 780  
 ctggttaggt tctggggaag gttcttctac ttgattggaa aatttccaaa taaatctttc 840  
 cagaagatac tatgcacaca gctaagtggt ctgtctgtgg agtaaccctt ttgtaaacaa 900  
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 tgatttaaaa tgtgnacatt gatttttttt aattccraaa tacaagcgta tatggtawat 1080  
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 ggaaaattca gccacatggg ggaaaattga tatgtgcacc attgagttgc tctgtttctt 1440  
 ggtgaagagt gaatctaata tgatttcctt cttcatcaga tatgcctctt taacaacaaa 1500  
 aaaaaaaaaa aaggaattcg atatcaagct tatcgatacc gtcgacctcg ta 1552

<210> 113  
 <211> 1489  
 <212> DNA  
 <213> Homo sapiens

<400> 113  
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 gagtgaagca acatggatgc agtcagccaa gtccccatgg aagtcgtgct tcccaagcac 180  
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 gttctggttt tgattctgcc acgagccagc tgtgtgaatt tggtaaggg acctaactct 480  
 ctgagttcca ggttctctat ctttcaaatg gggatgggtga tccctgccct ttctacctca 540  
 tagggatgtg agaaccacct gacttagtgg atgtgaaagc tgtttgtgat cagtaaagct 600  
 accacagata taagggtggt atgctgaatc ctgagaagct ttcaagaacc agagaacctg 660  
 attgctgatg atggccttaa aggtgggtgag ggagatactg ggggcagagc agactttgcc 720  
 agtgcccctc aggtcaaacc aagccaagag caccctgtcc ccattccaag gggccagcag 780  
 cactttggcc caaagtattt tctttaaggt gccattcctt catgttttct cagtttgagg 840  
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 tgaaggaagg ctgtgccatc tttgggcact gccaaaggag ttgggggtgat gggcttcttt 960  
 ctgcactgga gtctcacatc tttagctttt gacactcaag caatgttgga aaatgcaggg 1020  
 tgactgagtt ccctgcccag ctttcgggat ctctggcccc catccccttg tgtgtgtccc 1080

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tctgcagcca	gcctatggca	attatatattt	aagaggtggt	cccaggactt	ttgggaccta	1200
ctaaaacaat	gatgggttatt	ttagatgtga	tgattttatat	ttatgtagag	atattttctgg	1260
accactcaag	ctcttcgata	ccaaaatcag	gagcatcttg	ggattttatta	aattatgtaa	1320
gaagatagca	cagatatcgg	gatattattg	tgtgaaaatg	ctgctttttac	tttgatgtga	1380
tctcattgat	gtacacaacc	aagttccaat	aaagtgcctag	aatgtgaaaa	aaaaaaaaaa	1440
aaaactgcga	ggggggggacc	cgtaacccta	atcgacctta	atgagtgtg		1489

<210> 114  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<400> 114						
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aatagtttta	tgcaagtttt	ttggctctag	atctgttttag	actcctgcag	tcagggtgtct	120
gtaactagcc	tctgggtcctt	tttgagagtt	cacagtttgg	tgcaaaccct	ttggatgtat	180
tattttgggaa	aatgggatatt	ctggcagcct	gtgtccctgc	tttacattat	cctttttgct	240
gcctgcccc	gcctcctcat	tagcatccct	gccaaggcca	gtggagaagg	atggagatgc	300
ggtgacattc	agctgacagt	tgtcacagat	tgataatagc	taacagcaca	tctctcccc	360
ggctccttcc	ctagtgcacc	aattagccca	gcctcatctg	cacctgggac	tcaagttgcc	420
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caaacaattc	agaagttgtg	actttccatg	ctctgcacac	agaggctacc	aaatgctaag	540
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<210> 115  
 <211> 1498  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (791)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<400> 115

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 <211> 1797  
 <212> DNA  
 <213> Homo sapiens

<400> 116						
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&lt;210&gt; 117

&lt;211&gt; 952

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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&lt;210&gt; 118

&lt;211&gt; 1185

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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tcaccaccga	atggtatatt	tttaaaggac	gaatttatgg	tatgtaaatt	gtgtctcaat	1140
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&lt;210&gt; 119



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 <212> DNA  
 <213> Homo sapiens

<400> 119  
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 ctgttgaaga acgctctgca gagagcagta gagaggggcc agttagaaca gataactggc 180  
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 aaaaaaaagg gcggccgc 1098

<210> 120  
 <211> 805  
 <212> DNA  
 <213> Homo sapiens

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 ccttttctatt aatgacccaa ccattattca agagctatgt ctagttaggg acttcagact 480  
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 ccacttaaaa aaaaaaaaaa aaaaaa 805

<210> 121  
 <211> 3435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (760)  
 <223> n equals a,t,g, or c

<400> 121

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 <212> DNA  
 <213> Homo sapiens

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1378

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&lt;210&gt; 126

&lt;211&gt; 1064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;211&gt; 1607

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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&lt;211&gt; 1037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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&lt;211&gt; 1146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

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attgtgcaa	gcttatgctt	tcttgcagta	tctgagagac	cgattaacaa	aacaagagtt		780
ccagaccctt	ttcttttttg	gtgtatcact	agctgcagg	gctgtgttcc	ttagtgtcat		840
ctatttgact	tatacagggt	acattgcacc	atggagtggc	aggttttatt	catttgtggga		900
tactgggtat	gcaaaaatac	acattccaat	tattgcatca	gtgtctgagc	atcaacctac		960
gacttgggtg	tctttcttct	ttgatctaca	tattctttga	tgtaccttcc	cagcaggcct		1020
ttggttctgc	atcaaaaata	tcaacgatga	aagantattt	ggtaagarag	gtttttaatg		1080
actactttga	tatggaatag	ttatttttct	ttttgagatt	atttacttta	aatttttgtt		1140
tttctatgtt	tgactctata	tattcaagat	aaattttctc	ctttattttg	cataggtgct		1200
taaccaagaa	aaattcactg	agaggctggg	catggtggca	cacgcctkta	atcccagcac		1260
tttgggaggc	cgaggcgggc	ggatcacctg	aggtcaggag	ttcgagacca	gcctggccaa		1320
catggtgaaa	ccttgtctct	actaaaaata	caaaaattag	ccgaacatgg	tggtgcatgc		1380
ctgtaatccc	agctactcag	gaggctgagg	caggataatt	gcttgaacct	gggaggcgga		1440
ggttgcagtg	agctaagtc	aagccactgc	actccacctt	gggaatcaga	gcgggactct		1500
gtctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	cgc			1543



<210> 134  
 <211> 2157  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (309)  
 <223> n equals a,t,g, or c

<400> 134  
 caaaaaggac cgccattga agatgccatt gcttcttccg atgttcttga gactgcttct 60  
 aaatctgcta atccacccca cacgattcaa gcatcagaag agcagagttc aaccccagca 120  
 ccggtgaaaa agtctggcaa gctgaggcag caaatagatg tgaaggcgga actggagaag 180  
 cggcaaggag ggaagcagct actcaactta gtggctcattg gtcattgtga tgctgggaaa 240  
 agtactctga tgggccatat gctttatctt ctgggtaata taaacaaaag aactatgcat 300  
 aagtatganc aggagtctaa aaaggctggc aaagcttcgt ttgcatatgc atgggtcttg 360  
 gatgaaactg gcgaagaaa ggaaggggga gtaaccatgg atgttggtat gacaaagttt 420  
 gaaaccacaa ccaaagttaa tacattaatg gatgctccag gccataagga cttcattcca 480  
 aatatgatta caggagcagc ccaggcggat tgagactgga ggacaaacac gagagcatgg actcttggtc 540  
 ggagagtttg aagctggatt tgagactgga ggacaaacac gagagcatgg actcttggtc 600  
 cgttctctgg gagtgcgca gcttgcagtt gcagttaata aaatggatca ggtaatttgg 660  
 caacaagaaa gggttcaaga gattactgga aaacttgggc actttcttaa gcaagcaggt 720  
 ttaaggaga gtgatgtagg ttttattcct acaagtgggc tcagtgggtga aaatctaate 780  
 acaagatctc agtcaagtga actcacaaaa tgggtataaag gactatgttt attagaacaa 840  
 attgattcct ttaagcctcc ccagcgatct attgacaaac ctttttagatt atgtgtgtcc 900  
 gatgttttca aagatcaagg atctggattt tgcataactg gtaaaataga agctgggtat 960  
 atccaaactg gtgaccgact actggcaatg cctcctaactg aaacttgtac cgtgaaagga 1020  
 atcactctgc atgatgaacc tgtcgactgg gcggcagcag gcgatcatgt tagtcttact 1080  
 ttgggttggga tggatatcat caaaatcaat gttggctgca tattttgtgg ccccaaagta 1140  
 cccattaaag cttgcaactcg tttcagagcc cgaatcctca tctttaatat tgaaattcct 1200  
 atcactaaag gatttcctgt gctgttacac taccaaactg tcagtgaacc cgccgttatt 1260  
 aaacgattga ttagtgtctt aaacaaaagc acgggtgaag tcacaaagaa aaagcctaag 1320  
 tttttgacta aaggccagaa tgcattggta gagctacaga cacaaagacc aatagctctt 1380  
 gagctatata aagactttta agagctgggg aggttcatgc tacgttacgg tggttctaca 1440  
 atagctgctg gtgtgtcac tgagataaaa gaatgatggg tcmgaatttc taccagttt 1500  
 ctggatacag tgaaatagct aacctctgty tcaagaatgc agttattaag tcaaagggaac 1560  
 aatgtgcaat tgatatgttt ttagatgaga gagaaaaatt aaagctaaaa ttagctgcaa 1620  
 agaagtatta ataatacact ctgcaaaaat tctaagttgc caactggcaa agraagtcta 1680  
 atgttaaaaa caactttgcc tttgaamcgt taataaatgg atttactttg ctaagattta 1740  
 tggcaagtgt caaaaatagt atctgaagat actgaatcat catgaaatga actctacttc 1800  
 tggccaaagc acaatgtatt tgcagttttc tcttttgatt caattatact gcacatgttt 1860  
 taaggaaaag taacttaatt ggggttttca ggcagttgat atttgaccta agcttttttt 1920  
 tttttttttt ttccagttta tgctaagaaa agattttggg aaggttataa taaaagtatt 1980  
 ttgtggtgac cataagaatg tccctcccca aacaagttaa cttgtgaaag ttaattttgg 2040  
 aattagtggg agctgttcc ttgaaagcca agatattatt taagttgtaa agccagctaa 2100  
 taaaatgcct tagtttgagc ataaaaaaa aaaaaaaaaa aaaaaaaaaa actcgag 2157

<210> 135  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 ggcacgagag agagcagagc tatacatagc tatccaggtc taacttcacg aagaatagaa 60  
 tggtttcttt tcattttcaa tgtacatcat actttgtcag actttttttt cagttgcagc 120  
 tcttcgttgg actggtgata gtattggctt tattaatctc tcattctctc acttattcat 180  
 tccacaaaaca tttgtagaag gccaccaagc tctagggaga ggaaaatggg tttataaatt 240

agtgttttct	gggataaagg	aaattttataa	tctgtactac	ttaatagtag	ccactagcca	300
catgtgggtt	tcgaacaaga	tttccatcac	ctctccaacc	actttctcct	cattgggtcag	360
atctagaccc	cgagaaaactg	ttcctttcat	tgttttctcc	gccttctaca	aactgagata	420

&lt;210&gt; 136

&lt;211&gt; 946

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 136

ggcacgagtg	agattgcatc	cagacagagt	tttaaaagtt	tcccgggtga	gtttaatgta	60
cagttgaagt	tgagacatga	atctctgcat	gtaggggaaa	ttttgtgtct	ggttagtcaa	120
gaaactatgg	aaaccaattc	ttgatatttt	gaaccattca	cgaagatagt	ttgagtcatg	180
agcatgctgt	tgtctagagt	gggcggggat	gactcattgg	agtggatgcg	ctgctctgta	240
cttgattttt	ttgagtctga	aattagcttt	ccaggctggg	gcaggaggag	gagcacaggt	300
gggatcagta	ctgcccccaa	gcggtggagc	tggtggtggt	gatcaatact	gctgccgcct	360
gtctgcacaa	acatatttct	ctcttccagc	ccttcagaag	tgtattggaa	tatgtcgata	420
acaataatga	tggtagtga	gatgatgatg	atgtgggtaa	ttctggctac	cttattgggt	480
ccaagctccc	cacaattcgt	tgacaaaagc	actctacata	cattctcttt	agtcctgata	540
aaaccacctt	tcagagttagg	atttagtgct	ctatttttaa	gatgaaggag	ctcgggctca	600
gagagagatc	gttttagacac	acacacaact	ttggaatgaa	acatttacag	ccgggcgcgg	660
tggcgcgtgc	ctgtagctcc	agctacttgg	gaggctgagg	ctggaggatc	gcttgagtcc	720
aggagtcttg	ggctgtagt	cgctatgccg	atcgggtgtc	cgcactaagt	ttggcatcaa	780
tatggtgacc	tcccgggagt	ggaggaccac	caggttgccct	aaggaggggg	gaaccgggtc	840
aggtcggaat	gaaacattta	caaaaattga	catttcctta	tgcatagata	tttactagg	900
tccttaaaac	ccacgtgaat	ctgtgattaa	aaaaaaaaaa	aaaaaa		946

&lt;210&gt; 137

&lt;211&gt; 1258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

aaccctcact	aaagggaaca	aaagctggag	ctccaccgcg	gtggcggccg	ctggctgacc	60
ggcctaaaa	taaaatgaca	tttattccct	agctacaaac	atcagcggtta	ttatgttaat	120
tataccttgc	cctctatcat	tataaatggt	tgccatgggt	tttctaaaaa	taagtgtttt	180
accattaatg	tgtagagggc	aaacaaagca	taaagtacta	agggatcatg	cttatacctag	240
ggtctcacag	aagagaggac	atattttaatt	aatcttgtga	attacagaac	aggttgtggt	300
ccagacacca	agaatcatag	gggttttttt	ttaaaaaacc	taatagaagt	aggtgacct	360
ctctctttgg	tctaagagtt	ctaaaggaag	gtaggcatct	gtttaattag	ttggttcacc	420
ctggctttac	ctctggttaa	tgcttgtgtt	aataggaagg	aaaaatcact	ttatcttttc	480
ttccaagccc	ctccctgcct	gacttaccca	gactgggatt	accagatacc	aggtgattta	540
tgtggagatg	atttttcacc	tttaaaactct	aagccaagtg	taagaaactc	ttgatagcta	600
tgtctatttt	atatcagtca	ctgagacttt	tttttaagtt	tttattttatt	attaagacaa	660
ctttgccaaa	aaagtcacct	aagcacaact	atttacattt	ctttatagcc	tcttctgata	720
tctaacacat	atgcagtttt	aactgtttatt	ttcatagtaa	ctgatctttt	gtctaaggat	780
ttttacctga	aagcacaatg	tattgagtct	cttgaaaatc	atcttttcaga	tctttttaca	840
gaatgaactt	atgcactgct	actgtagtat	tctcaaggaa	tatatgtaaa	cacaaatgta	900
tgcctgaggt	tgggtttttg	agaaaacagt	ctctgcttct	aaaaacttct	atgtctagtc	960
ttccatagga	aatcctcact	gttttaaccat	gtgaggagcc	taagtcatta	aacggatcat	1020
gtctgtacat	tgtgtaatga	atgaaaagca	cataaatgta	atctactttg	aactttgtaa	1080
aaatgatgtg	tggaggctat	tcttgtttct	ccatctcaag	tctgtgtgtg	gcaggtgtgt	1140
gcaagtgcac	atgtgtgtgt	gtaataacac	attgtaaaga	acagaaatta	ctttaaaaaa	1200
taaacagaaa	tggagacctg	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1258

&lt;210&gt; 138

<211> 1598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1067)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1069)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1577)  
 <223> n equals a,t,g, or c

<400> 138

aggaaagaac	aaaggttatt	tcctggagaa	aagacaattt	attcaacacc	aacragggac	60
tcacatcatg	ggcacaactc	tggtgtcctt	ctatggagaa	aacctcaagt	aaagttttat	120
tctgcctttr	aaaatgcttc	caaaagtaga	ccctgtcccc	acacaggtca	agactacaga	180
gaaggctttg	tagaaatgtg	tcacctatgt	acacctgcta	cttacacatt	tcctcttttg	240
gaaaaatgag	atacttagaa	taacargaaa	attaagacat	actggcctgg	tgccagcaga	300
tggtctttct	atagacaaac	taggttagtg	tggaagatat	aggttaaaat	aaactatgct	360
gttttattta	tcttcccaac	ctgattggca	gctagacttt	tttagggctc	catttaatgg	420
ccctgttttt	tccattatta	tatttaatga	tagggcagga	tttcgtatgc	aagctcttgt	480
ttctcaggct	gcctgcagaa	gaagtcgcta	taaattatct	gttgcttaca	tggtacaagg	540
cccattgact	catctgatgc	ttgttttggt	aatttcttta	atatttttat	cacggggcag	600
tgggagggtg	tggtctttta	gccacagctg	ttttaagact	tctgatctcc	tgccctgcag	660
gaataggtgg	gaagtcattg	aattttttaca	ctatagtaat	ttgcattccc	acataagttt	720
gagtgttacg	aaaacattcc	tttaaaggga	tctgtgtctac	acaaaatatg	ccaggacctc	780
acagacaaaag	ccattgctag	aaatgtcatt	ccaatgatca	gatctggaaa	caggctgcca	840
taaccactttt	tccttcttgt	agactcagct	cacctgtata	tttaaactgt	tcttggcatc	900
ttgaaaacacc	tatttctact	caggtactca	ttgtcctggt	actgattcac	ctttctgata	960
ctttttcaacc	agttttcccc	caagggggga	aattttactt	aacctctagt	atttgaacaa	1020
ctcaatatatt	gaattgttgc	cccatttgct	tttacctgta	ctgtatnct	ggcatctca	1080
aatggcgctct	aaaccagct	actttgcatt	ccagaagttt	ccattccctc	caattccacc	1140
taattttttca	tctgtcctag	ttactggctc	tttcttcatg	tcttatttct	cttgcttttg	1200
gagcttaaaa	gatttttaca	gacctaat	tggttccctt	ccttggagcc	atagttaccc	1260
tgccaagaag	agtagaaaat	gggttcaact	cctgtttcgc	tccaccaaca	cctctgtgag	1320
tctcatcatc	agctgagcga	tgatgcctta	caggttgcat	agcactggaa	ctttcctaga	1380
gtaacggctc	tgctgccagg	gtttctcttg	gctcattctt	ccactgactt	aattatgac	1440
tatgcctaac	agagccccag	tacaactatt	ttgcagaatg	gctgttaccc	tagaattact	1500
atagcacata	ttgagatata	gttggtactcc	ctagtagata	ggaactgacc	ccaacaataa	1560
acttttgataa	taaaganaaaa	aaaaaaaaaa	actcgtag			1598

<210> 139  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Phe Gln Cys Gly Leu Leu Gln Gln Leu Cys Thr Ile Leu Met Ala  
 1 5 10 15

Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr Val Ser

[illegible]

<210> 140  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 140  
 Met Thr Val Ala Ser Ile Arg His Ile Leu Val Glu Ile Trp Leu Pro  
           1                  5                  10                  15  
 Ile Ala Leu Ala Met Gly Thr Arg Gly Leu Thr Gln Ile Val Ala Val  
                   20                  25                  30  
 Ile Gln Ser Arg Ser Gln Trp Ala Leu Ser Xaa  
                   35                  40

<210> 141  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals stop translation

<400> 141  
 Met Leu Phe Ile Phe Leu Leu Leu Ile Leu Ser Ile Thr Ala Ser Tyr  
           1                  5                  10                  15  
 Ser Leu Thr Cys Ile Leu Ser Gly Ala Gly Glu Pro Ser Ser Val Ser  
                   20                  25                  30  
 Ala Ser Val Val Ser Gly Pro Gly Phe Cys Leu Ala Ala Leu Leu Leu  
                   35                  40                  45  
 Met Arg Thr Gly Gly Phe Ala Ala Thr Leu Leu Pro Val Ala Pro Thr  
           50                  55                  60  
 Glu Arg Phe Phe Ser Cys Cys Thr Val Leu Ser Ala Gln Arg Asn Val  
           65                  70                  75                  80  
 Ser Arg Thr Arg Ser Pro Xaa  
                   85

<210> 142  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

0981883 032304

<222> (122)

<223> Xaa equals stop translation

<400> 142

Met Leu Ser Thr Arg Trp Met Gly Leu His Leu Val Gln Ile Leu Trp  
1 5 10 15

Arg Cys Trp Thr Ser Ser Ala Thr Ile Thr Ser Arg Lys Leu Ser Thr  
20 25 30

Ala Leu Arg Ser Pro Val Leu Ser Gly Thr Gln Thr Ser Arg Ser Ser  
35 40 45

Gly Asp Ser Gly Trp Ser Met Lys Thr Ser Val Lys Ala Thr Pro His  
50 55 60

Gln Met Ser Leu Arg Ser Gly Lys Glu Thr Pro Ser Ala Asp Ile Pro  
65 70 75 80

Arg Ile His His Gln Leu Val Arg Leu Arg His Gln Ala His Gly Gly  
85 90 95

Trp Ser Pro His Gly Val Pro Glu Gln Gly Thr Met Pro Leu Val Leu  
100 105 110

Pro Pro Val Ser Cys Asp Ile Gln Pro Xaa  
115 120

<210> 143

<211> 276

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (276)

<223> Xaa equals stop translation

<400> 143

Met Ala Asn Thr Gly Val Phe Gly Phe Ser Phe Leu Leu Leu Thr Val  
1 5 10 15

Ala Leu Leu Ala Ser Tyr Ser Val His Leu Leu Leu Ser Met Cys Ile  
20 25 30

Gln Thr Ala Val Thr Ser Tyr Glu Asp Leu Gly Leu Phe Ala Phe Gly  
35 40 45

Leu Pro Gly Lys Leu Val Val Ala Gly Thr Ile Ile Ile Gln Asn Ile  
50 55 60

Gly Ala Met Ser Ser Tyr Leu Leu Ile Ile Lys Thr Glu Leu Pro Ala  
65 70 75 80

05010003 032801

Ala Ile Ala Glu Phe Leu Thr Gly Asp Tyr Ser Arg Tyr Trp Tyr Leu  
85 90 95

Asp Gly Gln Thr Leu Leu Ile Ile Ile Cys Val Gly Ile Val Phe Pro  
100 105 110

Leu Ala Leu Leu Pro Lys Ile Gly Phe Leu Gly Tyr Thr Ser Ser Leu  
115 120 125

Ser Phe Xaa Phe Met Met Phe Phe Ala Leu Val Val Ile Ile Lys Lys  
130 135 140

Trp Ser Ile Pro Cys Pro Leu Thr Leu Asn Tyr Val Glu Lys Gly Phe  
145 150 155 160

Gln Ile Ser Asn Val Thr Asp Asp Cys Lys Pro Lys Leu Phe His Phe  
165 170 175

Ser Lys Glu Ser Ala Tyr Ala Leu Pro Thr Met Ala Phe Ser Phe Leu  
180 185 190

Cys His Thr Ser Ile Leu Pro Ile Tyr Cys Glu Leu Gln Ser Pro Ser  
195 200 205

Lys Lys Arg Met Gln Asn Val Thr Asn Thr Ala Ile Ala Leu Ser Phe  
210 215 220

Leu Ile Tyr Phe Ile Ser Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Gly  
225 230 235 240

Ser His Ser Val Ala Gln Val Gly Val Gln Trp Cys Asp Leu Ser Ser  
245 250 255

Leu Gln Pro Leu Pro Pro Gly Leu Lys Gln Ser Ser His Leu Ser Leu  
260 265 270

Gln Ser Ser Xaa  
275

<210> 144

<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals stop translation

<400> 144

Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly  
1 5 10 15

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<210> 145
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals stop translation

<400> 145
Met Leu Leu Leu Cys His Ala Leu Ala Ile Ala Val Val Gln Ile Val
 1             5             10             15

Ile Phe Ser Glu Ser Trp Ala Phe Ala Lys Asn Ile Asn Phe Tyr Asn
      20             25             30

Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser Phe Lys Cys
      35             40             45

Phe Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala

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<210> 147
<211> 267
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (267)  
<223> Xaa equals stop translation
```

<400> 147																
Met	Trp	Trp	Phe	Gln	Gln	Gly	Leu	Ser	Phe	Leu	Pro	Ser	Ala	Leu	Val	
1				5					10					15		
Ile	Trp	Thr	Ser	Ala	Ala	Phe	Ile	Phe	Ser	Tyr	Ile	Thr	Ala	Val	Thr	
			20					25					30			
Leu	His	His	Ile	Asp	Pro	Ala	Leu	Pro	Tyr	Ile	Ser	Asp	Thr	Gly	Thr	
		35					40					45				
Val	Ala	Pro	Glu	Lys	Cys	Leu	Phe	Gly	Ala	Met	Leu	Asn	Ile	Ala	Ala	
	50					55					60					
Val	Leu	Cys	Ile	Ala	Thr	Ile	Tyr	Val	Arg	Tyr	Lys	Gln	Val	His	Ala	
	65				70					75					80	
Leu	Ser	Pro	Glu	Glu	Asn	Val	Ile	Ile	Lys	Leu	Asn	Lys	Ala	Gly	Leu	
				85					90					95		
Val	Leu	Gly	Ile	Leu	Ser	Cys	Leu	Gly	Leu	Ser	Ile	Val	Ala	Asn	Phe	
			100					105					110			
Gln	Lys	Thr	Thr	Leu	Phe	Ala	Ala	His	Val	Ser	Gly	Ala	Val	Leu	Thr	
		115					120					125				
Phe	Gly	Met	Gly	Ser	Leu	Tyr	Met	Phe	Val	Gln	Thr	Ile	Leu	Ser	Tyr	
	130					135						140				
Gln	Met	Gln	Pro	Lys	Ile	His	Gly	Lys	Gln	Val	Phe	Trp	Ile	Arg	Leu	
145					150					155					160	
Leu	Leu	Val	Ile	Trp	Cys	Gly	Val	Ser	Ala	Leu	Ser	Met	Leu	Thr	Cys	
				165					170					175		
Ser	Ser	Val	Leu	His	Ser	Gly	Asn	Phe	Gly	Thr	Asp	Leu	Glu	Gln	Lys	
			180					185					190			
Leu	His	Trp	Asn	Pro	Glu	Asp	Lys	Gly	Tyr	Val	Leu	His	Met	Ile	Thr	
		195					200					205				
Thr	Ala	Ala	Glu	Trp	Ser	Met	Ser	Phe	Ser	Phe	Phe	Gly	Phe	Phe	Leu	
		210				215						220				
Thr	Tyr	Ile	Arg	Asp	Phe	Gln	Lys	Ile	Ser	Leu	Arg	Val	Glu	Ala	Asn	
225					230						235				240	

Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn  
 245 250 255

Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile Xaa  
 260 265

<210> 148

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

<400> 148

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala  
 1 5 10 15

Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His  
 20 25 30

Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser  
 35 40 45

Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile  
 50 55 60

Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser  
 65 70 75 80

Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu Xaa  
 85 90

<210> 149

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals stop translation

<400> 149

Met Ala Ile Leu Leu Ala Cys Phe Thr Ala Val Leu Ala Phe Ile Cys  
 1 5 10 15

Leu Gln Phe Trp Cys Val Arg Cys His Glu Pro Arg Trp Ser Tyr Arg  
 20 25 30

Ala Gly His Met Glu Glu Ala Asn Gly Leu Val Arg Trp Pro Glu Glu  
 35 40 45

Ala Pro Asp Leu Gly Gln Arg Glu Glu Asp Leu Gln Gly Leu Pro Leu

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50 55 60

Val Glu Met Pro Arg Lys Asn Ser Arg Asp Gly Ala Glu Leu Asp Pro  
65 70 75 80

Glu Ala Asn Gln Asp Ala Pro Asp Ala Gly Ala Leu Gln Arg Gly Gly  
85 90 95

Gly Asp Pro Pro Ala Ile Leu Pro His Cys Gly Glu Xaa  
100 105

<210> 150  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals stop translation

<400> 150  
Met Leu Leu Arg Val Phe His Phe Phe Leu His Ile Leu His Lys Lys  
1 5 10 15

Gln Thr Gly Val Ser Leu Leu Tyr Leu Leu Leu Thr Leu Phe Leu Leu  
20 25 30

Gln Gln Gln Val Ile Pro Gln Pro Ser Leu Pro Leu Leu His Leu Val  
35 40 45

Ser Phe Gln Ile Cys His Tyr Pro Phe Pro Gln Trp Met Leu Gln Tyr  
50 55 60

Arg Gln Ala Lys Met Val Leu Gly Thr Arg Cys Gln Met Ser Leu Met  
65 70 75 80

His Phe Gln Asn Ser Gln Asn Xaa  
85

<210> 151  
<211> 74  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals stop translation

<400> 151  
Met Ser Arg Val Val Ser Leu Phe Phe Phe Ile Leu Phe Ser Phe Phe  
1 5 10 15

Phe Phe Ala Phe Ser Leu Ser Ser Ser Leu Ser Phe Val His Tyr Glu  
20 25 30

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Lys Leu Val Gln Val Lys Glu Cys Leu Asp Ser Phe Leu Lys Lys Ile  
 35 40 45

Lys Ile Lys Glu Tyr Lys Thr Arg Gln Cys Tyr His Leu Ile Arg Trp  
 50 55 60

Glu Asn Asn Gly Ala Lys Leu Gln Ser Xaa  
 65 70

<210> 152

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 152

Met Ser Ala Ser Leu Lys Asn His Leu Thr His Cys Phe Leu Leu Leu  
 1 5 10 15

Leu Leu Lys Glu Leu Val Ser Pro Thr Met Ile Ser Phe Val Pro Thr  
 20 25 30

Leu Arg His Ser Tyr Arg Phe Phe Asn Leu Phe Ser Cys Asp Ala Glu  
 35 40 45

Ser Thr Lys Glu Ser Pro Gly Arg Thr Val Gln Phe Ser Lys Thr Pro  
 50 55 60

Arg Gly Val Thr Met Phe Ile Xaa  
 65 70

<210> 153

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals stop translation

<400> 153

Met Lys Tyr Gly Leu Thr Gly Pro Trp Ile Lys Arg Leu Leu Pro Val  
 1 5 10 15

Ile Phe Leu Val Gln Ala Ser Gly Met Asn Val Tyr Met Ser Arg Ser  
 20 25 30

Leu Glu Ser Ile Lys Gly Ile Ala Val Met Asp Lys Glu Gly Asn Val  
 35 40 45

Leu Gly His Ser Arg Ile Ala Gly Thr Lys Ala Val Arg Glu Thr Leu  
 50 55 60

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<223> Xaa equals any of the naturally occurring L-amino acids'

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals stop translation

<400> 155  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
     1                    5                    10                    15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
             20                    25                    30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
             35                    40                    45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
             50                    55                    60  
 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
     65                    70                    75                    80  
 Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp  
                     85                    90                    95  
 Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr  
                     100                    105                    110  
 Phe Ser Ser Gln Val Leu Leu Pro Leu Leu Xaa  
     115                    120

<210> 156  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals stop translation

<400> 156  
 Met Ser Pro Cys Ala His Ile Cys Leu Tyr Val Leu Val Phe Leu Cys  
     1                    5                    10                    15





&lt;400&gt; 158

Met Ser Leu Gln Ala Ile Asp Leu Leu Trp Ser Leu Cys Thr Gln Thr  
 1 5 10 15

Ser Leu Leu Thr Leu Ile Cys Ile Cys Ser His Ser Gln Ala Leu Ser  
 20 25 30

Ser Ser Pro Gln Leu His Leu Arg Ser Ser Ser Ile Arg Phe Ser Xaa  
 35 40 45

&lt;210&gt; 159

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 159

Met Phe His Phe Gly Leu Trp Asp Leu His Phe Phe Leu Ile Val Met  
 1 5 10 15

Ala His Arg Asp Asp Cys Ser Phe Lys Gly Gly Cys Gly Leu Leu Glu  
 20 25 30

Arg Phe Gln Cys Pro His Thr Ser Phe Ser Ser Ala Ser Gln Lys Arg  
 35 40 45

Leu Ala Asp Gly Met Glu Cys Leu Cys Glu Ile Glu Arg Thr Gln Thr  
 50 55 60

Arg Ile Arg Lys Ile Cys Leu Pro Thr Leu His Gly His Leu Leu Ala  
 65 70 75 80

Val Xaa

&lt;210&gt; 160

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (156)  
 <223> Xaa equals stop translation

<400> 160

Met	Met	Ala	Arg	Gln	Thr	Gly	Val	Phe	Tyr	Leu	Thr	Leu	Val	Leu	Ile
1				5					10					15	
Leu	Val	Thr	Ser	Gly	Leu	Phe	Phe	Ala	Phe	Asp	Cys	Pro	Tyr	Leu	Ala
			20					25					30		
Val	Lys	Ile	Thr	Pro	Ala	Ile	Pro	Ala	Val	Ala	Gly	Ile	Leu	Phe	Phe
		35					40					45			
Phe	Val	Met	Gly	Thr	Leu	Leu	Arg	Thr	Ser	Phe	Ser	Asp	Pro	Gly	Val
	50					55					60				
Leu	Pro	Arg	Ala	Thr	Pro	Asp	Glu	Ala	Ala	Asp	Leu	Glu	Arg	Gln	Ile
	65				70					75					80
Gly	Asn	Thr	Glu	Ser	Leu	Pro	Met	Ala	Ser	Gly	His	Phe	Pro	Pro	Gly
				85					90					95	
Pro	Ser	Tyr	Ser	Gly	Glu	Gly	Arg	Pro	Arg	Ala	Xaa	Gln	Glu	Glu	Leu
			100					105					110		
Xaa	Ala	Gly	Lys	Glu	Gly	Gly	Gln	Lys	Ser	Ala	Phe	Leu	Ser	Ser	Leu
		115					120					125			
Gly	Gly	Gln	Asp	Glu	Leu	Lys	Lys	Arg	Cys	Asp	Ile	Arg	Leu	Glu	Gly
	130					135					140				
Gln	Val	Ser	Trp	Arg	Gln	Asp	Cys	Arg	Pro	Thr	Xaa				
145					150					155					

<210> 161  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (295)  
 <223> Xaa equals stop translation

<400> 161

Met	Arg	Leu	Asp	Lys	Pro	Ile	Gly	Thr	Trp	Leu	Leu	Tyr	Leu	Pro	Cys
1				5					10					15	
Thr	Trp	Ser	Ile	Gly	Leu	Ala	Ala	Glu	Pro	Gly	Cys	Phe	Pro	Asp	Trp
			20					25					30		
Tyr	Met	Leu	Ser	Leu	Phe	Gly	Thr	Gly	Ala	Ile	Leu	Met	Arg	Gly	Ala
		35					40					45			
Gly	Cys	Thr	Ile	Asn	Asp	Met	Trp	Asp	Gln	Asp	Tyr	Asp	Lys	Lys	Val
	50					55					60				



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<210> 163
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals stop translation

<400> 163
Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe
 1             5             10             15
Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa
      20             25             30
Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser
      35             40             45
Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly
      50             55             60

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Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu  
65 70 75 80

Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys  
85 90 95

Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser  
100 105 110

Phe Leu Xaa Ile His Trp Leu Leu Pro Xaa  
115 120

<210> 164

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 164

Met Ser Ile Tyr His Val Cys Leu Ile Leu Leu Leu Tyr Ile Thr Ser  
1 5 10 15

His Ser His Gln Asn Met Ser Ser Cys Leu Gln Val Pro Leu Ser Leu  
20 25 30

Leu Ser Cys Pro Leu Lys Gly Glu His Leu Ser Gln Phe Ala Gly Asp  
35 40 45

His Ser Leu Pro Glu Val Arg Asp Arg Asn His His Cys Ile Leu Phe  
50 55 60

Lys Glu Ser His Gln Lys Arg Lys Xaa  
65 70

<210> 165

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals stop translation

<400> 165

Met Leu Ala Asn Phe Thr Leu Phe Ile Leu Thr Leu Ile Ser Phe Leu  
1 5 10 15

Leu Leu Val Cys Ser Pro Cys Lys His Leu Lys Met Met Gln Leu His  
20 25 30

Gly Lys Gly Ser Gln Asp Leu Ser Thr Lys Val His Ile Lys Pro Leu

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<400> 166																
Met	Pro	Gly	Pro	Cys	Leu	Ser	Gln	Gln	His	Pro	Phe	Leu	Ser	Leu	Ser	
1				5					10						15	
Leu	Phe	Pro	Phe	Cys	Leu	Trp	Ile	Cys	Leu	Ala	Arg	Val	Pro	Gly	Val	
			20					25					30			
Arg	Asn	Ile	Cys	Lys	Thr	Gln	Pro	Ala	Pro	Ser	Gln	Pro	Ser	Leu	Leu	
		35					40					45				
Gly	Leu	Gly	Leu	Ser	His	Pro	Ala	Ala	Gly	Thr	Thr	Asp	Ala	Gly	Thr	
	50					55					60					
Gln	Ser	Leu	Pro	Arg	Ser	Gln	His	Lys	Cys	Thr	Ser	Ala	Leu	Trp	Gly	
65					70					75					80	
Leu	Cys	Pro	Ala	Gln	Arg	Pro	Leu	Leu	Leu	Pro	Ala	His	Ile	His	Ser	
				85					90					95		
Ser	Gly	His	Gly	Ala	Pro	Gln	Glu	Leu	Gln	Ser	His	Leu	Ser	His	Arg	
			100					105					110			
Leu	Pro	Ala	Ser	Ala	Ser	Leu	Ser	Met	Met	Ser	Pro	Phe	Ser	Glu	Ala	
		115					120					125				
Trp	Thr	His	Pro	Ser	Leu	Ser	Leu	Gly	Pro	Ala	Pro	Ser	His	Xaa		
	130						135				140					

<210> 167  
<211> 117

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals stop translation

<400> 167  
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe  
 1 5 10 15  
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp  
 20 25 30  
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro  
 35 40 45  
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro  
 50 55 60  
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser  
 65 70 75 80  
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala  
 85 90 95  
 Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg  
 100 105 110  
 Gly Trp Thr Arg Xaa  
 115

<210> 168  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 168  
 Met Ser Val Cys Leu Pro Leu His Leu Pro Phe Leu Met Leu Ala Lys  
 1 5 10 15  
 Val Ala Thr Ser Phe Cys Arg Trp Gln Leu Thr Leu Phe Val Ser Thr  
 20 25 30  
 Phe Tyr Lys Asp Ala Leu Val His Thr Val Asn Asp Arg Asn Gln Glu  
 35 40 45

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<210> 169
<211> 126
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (126)  
<223> Xaa equals stop translation
```

<400> 169																
Met	Lys	Ala	Leu	Met	Leu	Leu	Thr	Leu	Ser	Val	Leu	Leu	Cys	Trp	Val	
1				5					10					15		
Ser	Ala	Asp	Ile	Arg	Cys	His	Ser	Cys	Tyr	Lys	Val	Pro	Val	Leu	Gly	
			20					25					30			
Cys	Val	Asp	Arg	Gln	Ser	Cys	Arg	Leu	Glu	Pro	Gly	Gln	Gln	Cys	Leu	
		35					40					45				
Thr	Thr	His	Ala	Tyr	Leu	Gly	Lys	Met	Trp	Val	Phe	Ser	Asn	Leu	Arg	
	50					55					60					
Cys	Gly	Thr	Pro	Glu	Glu	Pro	Cys	Gln	Glu	Ala	Phe	Asn	Gln	Thr	Asn	
65					70					75					80	
Arg	Lys	Leu	Gly	Leu	Thr	Tyr	Asn	Thr	Thr	Cys	Cys	Asn	Lys	Asp	Asn	
				85					90					95		
Cys	Asn	Ser	Ala	Gly	Pro	Arg	Pro	Thr	Pro	Ala	Leu	Gly	Leu	Val	Phe	
			100					105					110			
Leu	Thr	Ser	Leu	Ala	Gly	Leu	Gly	Leu	Trp	Leu	Leu	His	Xaa			
		115					120					125				

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<210> 170
<211> 87
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (87)
<223> Xaa equals stop translation.
```

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<400> 170
Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys
 1              5              10              15

Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr
      20              25              30

Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val
 35              40              45

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<400> 172
Met Ser Gln Leu Cys Phe Ser Leu Leu Leu Ser Ser Thr Cys His Gly
  1             5             10             15

```

Gly Val Ala Ser Leu Leu Thr Ser Asp Leu Ser Ser Gln Ser His Arg  
 20 25 30

Phe Ser Ile Cys Thr Asn Val Asn His Ser Lys Tyr Ser Ser Leu Xaa  
 35 40 45

<210> 173  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (137)  
 <223> Xaa equals stop translation

<400> 173  
 Met Leu Phe Ser Leu Arg Glu Leu Val Gln Trp Leu Gly Phe Ala Thr  
 1 5 10 15  
 Phe Glu Ile Phe Val His Leu Leu Ala Leu Leu Val Phe Ser Val Leu  
 20 25 30  
 Leu Ala Leu Arg Val Asp Gly Leu Val Pro Gly Leu Ser Trp Trp Asn  
 35 40 45  
 Val Phe Val Pro Phe Phe Ala Ala Asp Gly Leu Ser Thr Tyr Phe Thr  
 50 55 60  
 Thr Ile Val Ser Val Arg Leu Phe Gln Asp Gly Glu Lys Arg Leu Ala  
 65 70 75 80  
 Val Leu Arg Xaa Phe Trp Val Leu Thr Val Leu Ser Leu Lys Phe Val  
 85 90 95  
 Phe Glu Met Leu Leu Cys Gln Lys Leu Ala Glu Gln Thr Arg Glu Leu  
 100 105 110  
 Trp Phe Gly Leu Ile Thr Ser Pro Leu Phe Ile Leu Leu Gln Leu Leu  
 115 120 125  
 Met Ile Arg Ala Cys Arg Val Asn Xaa  
 130 135

<210> 174  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals stop translation

<400> 174  
 Met Glu Leu Ser Phe Val Arg Arg Leu Leu Leu Phe Thr Phe Phe Phe  
 1 5 10 15  
 Ser Thr Phe Ser Pro Pro Pro Pro Thr Pro Cys Leu Glu Gly Leu Met  
 20 25 30  
 Ser Cys Leu Pro Ser Pro Leu Xaa Lys Asn Thr Ala Gly Ser Gln Thr  
 35 40 45  
 Lys Ser Leu Arg Glu Ile Gly Thr Gly Ile Ser Asp Thr His Val Ser  
 50 55 60  
 Pro Ser Pro Ala Gln Ala Pro Leu Cys Ser Arg Ser Pro Thr Trp Asp  
 65 70 75 80  
 Ser Ser Asp Pro Asn Ser Met Asp Xaa  
 85

<210> 175  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals stop translation

<400> 175  
 Met Thr Met Val Met Glu Gln Val Tyr Leu Met Ser Phe Leu Leu Leu  
 1 5 10 15  
 Leu Leu Arg Thr Met Met Lys Ala His Trp Thr Tyr Thr Leu Gly Trp  
 20 25 30  
 Thr Val Leu Phe Leu Thr Ala Leu Pro Asn Pro Val Tyr His Gln Glu  
 35 40 45  
 Ile Val Trp Thr Tyr Met Lys Arg Ser Xaa  
 50 55

<210> 176  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens



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<210> 179
<211> 293
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (293)
<223> Xaa equals stop translation

<400> 179
Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala
 1             5             10             15
Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val
             20             25             30
Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn
 35             40             45
Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu
 50             55             60
Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu
 65             70             75             80
Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu
             85             90             95
Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln
 100            105            110
Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr
 115            120            125
Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala
 130            135            140
Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu

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<210> 180
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation
```

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<210> 181
<211> 47
<212> PRT
<213> Homo sapiens
```

<220>  
<221> SITE  
<222> (47)

<223> Xaa equals stop translation

<400> 181

Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser  
1 5 10 15

Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser  
20 25 30

Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr Xaa  
35 40 45

<210> 182

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 182

Met Thr Thr Ser Leu Phe Gly Leu Val Cys Val Val Cys Gln Gly Ala  
1 5 10 15

Gly Val Ser Ala Phe Thr Gln Val Asn Leu Phe Ser Phe Ser Leu Val  
20 25 30

Ile Val Lys Lys Gln Asn Lys Thr Ser Cys Glu Pro Phe Gly Thr Ser  
35 40 45

Gly Lys Val Pro Leu Leu Xaa  
50 55

<210> 183

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 183

Met Leu Ile Tyr Trp Leu Gln Ser Ser Phe Ile Leu Ser Ala Phe Val  
1 5 10 15

Leu Ile Asn Ser Pro Val Thr Thr Gly Ile Gln Lys Ser Cys Cys Lys  
20 25 30

Phe Phe Pro Val Ser Ile Asn Leu Cys Phe Ala Ser Leu His Arg Met  
35 40 45

Lys Val Val Thr Leu Val Ala Leu Gln Trp Leu Asn Ile Ala Leu Arg  
50 55 60

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Ser Ser Xaa  
65

<210> 184  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals stop translation

<400> 184  
Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr  
1 5 10 15

Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys  
20 25 30

Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His  
35 40 45

Thr Val Xaa  
50

<210> 185  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals stop translation

<400> 185  
Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu  
1 5 10 15

Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp

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20                      25                      30  
 Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr  
           35                      40                      45  
 Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val  
           50                      55                      60  
 Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr  
           65                      70                      75                      80  
 Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln Xaa  
                                  85                      90

<210> 186  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals stop translation

<400> 186  
 Met Ser Ala Leu Leu Ser His His Val Pro Leu Phe Tyr Leu Thr Gly  
           1                      5                      10                      15  
 Cys Leu Phe Ser Leu Leu Ala Ser Trp Asp Cys Asn Gly Lys Glu Gly  
                                  20                      25                      30  
 Ala Gly Arg Ala Ile Lys Gly Lys Asn Asn Thr Trp Asn Cys Met Ile  
           35                      40                      45  
 Leu Ser Lys Val Lys Phe Xaa  
           50                      55

<210> 187  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation

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Leu Pro Ser Gln Val Phe Gly Glu Val His Ser Ser Cys Val Ser Ser  
20 25 30

Leu Pro Cys Pro Asp Thr Pro Ala Leu Pro Tyr Cys Pro Ser Phe Leu  
35 40 45

Arg Tyr Asp Asp His Ile Glu Ala Gln Pro Leu Lys His Ile Asn Thr  
50 55 60

Asn Asp His Ile Ser Ile Xaa  
65 70

<210> 192

<211> 174

<212> PRT

<213> Homo sapiens

<400> 192

Met Tyr Val Arg Phe Phe Phe Arg Leu His Ser Ile Ser Ser His Pro  
1 5 10 15

Ser Gly Ile Val Ser Leu Cys Leu Leu Phe Glu Thr Leu Leu Gln Thr  
20 25 30

Tyr Leu Pro Gln Leu Phe Tyr His Leu Arg Glu Ile Gly Ala Gln Pro  
35 40 45

Leu Arg Ile Ser Phe Lys Trp Met Val Arg Ala Phe Ser Gly Tyr Leu  
50 55 60

Ala Thr Asp Gln Leu Leu Leu Leu Trp Asp Arg Ile Leu Gly Tyr Asn  
65 70 75 80

Ser Leu Glu Ile Leu Ala Val Leu Ala Ala Val Phe Ala Phe Arg  
85 90 95

Ala Val Asn Leu Met Glu Val Thr Ser Leu Ala Ala Ala Glu Asn Leu  
100 105 110

Ala Ala His Ser Glu Gln Phe Cys Thr Ala Pro Leu Phe Pro Glu Leu  
115 120 125

Tyr Arg Val Gln Ile Pro Val Leu Leu Asn Ser Gly Arg Lys Lys Ser  
130 135 140

Ala Val Tyr Trp Thr Pro Ile Ser Phe Asn Arg Thr Lys Lys Leu Arg  
145 150 155 160

Leu Gln Gly Arg Thr Tyr Asn Asp Gly Ser Trp Asn Ile Thr  
165 170

<210> 193

<211> 193

<212> PRT

<213> Homo sapiens

<220>

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<400> 193

Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys  
1 5 10 15

Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu  
35 40 45

Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn  
65 70 75 80

Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys  
100 105 110

Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr  
130 135 140

Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr  
145 150 155 160

Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr  
165 170 175

Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln  
180 185 190

<210> 194

<211> 11.2

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

 $\langle 222 \rangle$  (112)

<223> Xaa equals stop translation

<400> 194

Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala  
1 5 10 15

Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val  
 20 25 30  
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp  
 35 40 45  
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln  
 50 55 60  
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala  
 65 70 75 80  
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala  
 85 90 95  
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu Xaa  
 100 105 110

<210> 195

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals stop translation

<400> 195

Met Cys Arg Pro Leu Leu Pro Leu Leu Phe Pro Trp Gly His Cys Leu  
 1 5 10 15

Ser Ile Pro Leu Cys Lys Trp Pro Gln Ile Met Ser Gln Pro Pro Arg  
 20 25 30

Leu His Arg Leu Leu Ala Ser Gly Pro Ser Thr Lys Lys His Ser Lys  
 35 40 45

Leu Gln Thr His Ser Trp Glu Asn Ser Asn Gly Leu Thr Leu Pro Phe  
 50 55 60

Glu Pro Ala Arg Ser His Gly Leu Trp Arg Ala Ala Phe Glu Ser Xaa  
 65 70 75 80

<210> 196

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

0501.8683.032301

&lt;222&gt; (88)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 196

Met Leu Ser Ile Ile Asp Leu Leu Phe Leu Leu Ser Pro Thr Phe Gly

1 5 10 15

Leu Ile Thr Glu Leu Leu Phe Ser Pro Glu Val Pro Lys Ala Leu Ser

20 25 30

Cys Pro Leu Lys Ala Leu Gly Gly Gly Ser His Ser His Glu Pro Leu

35 40 45

Gly Met Phe Ala Pro Val Pro Pro Gly Cys Glu Ser Ser Thr Pro Phe

50 55 60

Pro Lys Gly Leu Gly Ala Ser Lys Ile Leu Thr Leu Gly Ala Gln Ala

65 70 75 80

Glu Phe Arg Arg Arg Ser His Xaa

85

&lt;210&gt; 197

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 197

Met Glu Asp His Phe Leu Ile Gly His Phe Pro Phe Phe Phe Leu Phe

1 5 10 15

Ser Phe Pro Cys Phe Cys Thr Lys Pro Leu Cys Arg Glu Tyr Phe Leu

20 25 30

Ile Cys Ser Ile Gln Asp Glu Ser Lys Xaa

35 40

&lt;210&gt; 198

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 198

Met Phe Asn Leu Pro Lys Pro Val Phe Leu Ser Trp Trp Arg Trp Lys

1 5 10 15

Thr Ile Val Ile Phe Leu Ala Cys Leu Ala Ser Ala Ala Ile Lys Glu

20

25

30

Thr Ala Val Ser Met Lys Thr Val Phe Pro Ile Phe Val Gln Ile Thr  
 35 40 45

Leu Ile Leu Leu Leu Glu Ser Arg Val Leu Lys Ile Gly Asp Phe Ser  
 50 55 60

Asn Phe Phe Cys Xaa  
 65

&lt;210&gt; 199

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE







<400> 203

Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ile Cys  
20 25 30

<210> 204

<211> 44

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (44)

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<223> Xaa.equals stop translation
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 $\langle 400 \rangle$  204

Leu Ile Leu Ala Tyr Cys Tyr Asn Ser Ile Ser Phe Phe Ser Asn Asn  
20 25 30

<210> 205

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

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<223> Xaa equals stop translation
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<400> 205

Phe Leu Leu Ser Phe Cys Asp Ser His Pro Pro Val Trp Leu Arg Asn  
20 25 30

<210> 20.6

<211> 42



Xaa

Leu Pro Pro Val Cys Thr Asn Ile Phe Leu Ser Ser Ser Pro Ser Glu  
50 55 60

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<210> 210
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation

<400> 210
Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp
 1             5             10             15
Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr
      20             25             30
Arg Asn Ser Lys Thr Val Phe Thr Ser Xaa
      35             40

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<220>
<221> SITE
<222> (51)
<223> Xaa equals stop translation
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<400> 211
Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile
  1                               5                               10                               15
Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp
                               20                               25                               30
Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp
  35                               40                               45
Arg Phe Xaa
  50

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<210> 212  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals stop translation

<400> 212  
 Met Phe Val Leu Cys Thr Arg Ala Val Arg Thr Arg Leu Phe Ser Leu  
   1                  5                  10                  15  
 Cys Cys Cys Cys Cys Ser Ser Gln Pro Pro Thr Lys Ser Pro Ala Gly  
           20                  25                  30  
 Thr Pro Lys Ala Pro Ala Pro Ser Lys Pro Gly Glu Ser Gln Glu Ser  
           35                  40                  45  
 Gln Gly Thr Pro Gly Glu Leu Pro Ser Thr Trp Ser Phe Cys Pro Phe  
   50                  55                  60  
 Xaa  
   65

<210> 213  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals stop translation

<400> 213  
 Met Leu Ala Leu Leu Val Gly Gly Leu Val Ala Ala Leu Ala Cys His  
   1                  5                  10                  15  
 Gly Ile Leu Ala Ala Ile Leu Ala Val Cys Gly Glu Leu Val Ser Gly  
           20                  25                  30  
 Lys Gly Thr Arg Ser Ser Asp Glu Asp Asp Gly Gly Asp Gly Asp Arg  
           35                  40                  45  
 Gly His Arg Gly Leu Ser Leu Leu Asn Ser Ala Phe Gly His Met Gly  
   50                  55                  60  
 Asp Gly Asp Arg Lys Asp Asp Asn Ser Gly Thr Leu Xaa  
   65                  70                  75

<210> 214  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

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 1002E0 228T850

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals stop translation

<400> 214  
 Met Phe Val Gly Thr Arg Val Leu Leu Val Pro Leu Pro Phe Phe Ser  
           1                  5                  10                  15  
 Ile Ser Gly Met Leu Ala Ile Asp Lys Tyr Leu His Lys Lys Leu Leu  
                   20                  25                  30  
 Leu Asn Glu Ile Ile Thr Thr Ser Thr Trp Ala Leu Xaa  
           35                  40                  45

<210> 215  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals stop translation

<400> 215  
 Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu Ser  
           1                  5                  10                  15  
 Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu Ser  
                   20                  25                  30  
 Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu Pro  
           35                  40                  45  
 Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala Arg  
           50                  55                  60  
 Thr Xaa  
           65

<210> 216  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

<400> 216



Met Arg Leu Cys Thr Thr Trp Met Ala Val Lys Phe Leu Trp Trp Gly  
 1 5 10 15

Met Thr Trp Ile Pro Ser Gly Lys Ala Cys Ser Trp Thr Gln Pro Leu  
 20 25 30

Cys Ser Ser Gly Gly Trp Ser Ser Pro Thr His Leu Pro Thr Ser Leu  
 35 40 45

Leu Leu Gly Trp Arg Ala Ser Leu Cys Met Lys Arg Ser Xaa  
 50 55 60

<210> 217

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 217

Met Phe Ala Ser Tyr His Ile Gln Phe Phe Thr Trp Leu Ile Gln Lys  
 1 5 10 15

Leu Ser Leu Val Trp Lys Ser Val Val Ala Ile Arg Glu Gln Gly Lys  
 20 25 30

Glu Leu Val Trp Lys Gln His Leu Pro Leu Arg Ser Tyr Ser Pro Asn  
 35 40 45

Asn Ala Lys Ser Leu Gly Leu Xaa  
 50 55

<210> 218

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals stop translation

<400> 218

Met Leu Ser Phe Asn Phe Thr Trp Met Val Trp Val Ser Leu Val Leu  
 1 5 10 15

Lys Ser Gln Arg Ala Lys Leu Ala Leu His Ser Leu His Leu His Gln  
 20 25 30

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Glu Val Arg Leu Arg Met Ser Arg Arg Glu Ser Pro Gly Arg Pro Leu  
                   35                                  40                                  45  
 Arg Cys Gly Val Arg Gly Asn Met Gly Ala Arg Thr Pro Val Pro Thr  
                   50                                  55                                  60  
 Ala Asp Tyr Pro Ser Pro Tyr Arg Thr Leu Pro Arg Met Ala Ala Pro  
                   65                                  70                                  75                                  80  
 Pro Pro Gln Lys Ser Ser Cys Xaa Arg Leu His Arg Pro His Trp Trp  
                                   85                                  90                                  95  
 Arg Pro Arg Thr Pro Ser Ser Glu Lys Thr Gly Gly Gln Ser Gln Ser  
                                   100                                  105                                  110  
 Thr Leu Asp Arg Cys Ala His Leu Val His Met Leu Leu Arg Asp Gln  
                   115                                  120                                  125  
 Arg Ala Thr Ser Gln Trp Lys Ala Gly Gly Arg Leu Cys Arg Ala Leu  
                   130                                  135                                  140  
 Ser Lys Thr Pro Leu Gln His Gln Leu His Ser Thr Ser Tyr Arg Lys  
                   145                                  150                                  155                                  160  
 Ala Leu Pro Ile Leu Arg Pro Ser Ser Arg Arg Glu Ala Gly Pro Leu  
                                   165                                  170                                  175  
 His His Ile Asp Leu Arg Arg Cys Phe Ser Arg Leu Gly Arg Gly Ala  
                                   180                                  185                                  190  
 Asp Phe Ala Val Cys Ala Lys Glu Pro Val Ser Asp Asn Pro Ile Phe  
                   195                                  200                                  205  
 Leu Leu Ile Thr Xaa  
                   210

&lt;210&gt; 219

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 219

Met Asn Met Phe Gln Thr Ile Leu Val Cys Val Leu Phe Val Phe Val  
           1                                  5                                  10                                  15

Arg Trp Phe Phe Leu Leu Leu Gln Ile Glu Ser Ile Gln Thr Lys Phe  
                   20                                  25                                  30

His Cys Ile Ser Ser Gln Phe Trp Xaa  
           35                                  40

&lt;210&gt; 220

<400> 222  
Met Pro Phe Phe Leu Leu Thr Phe Pro Leu Val Leu Tyr Pro His Leu

<210> 225  
<211> 51

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 225  
 Met Ala Ser Pro Val Phe Lys Thr Phe Trp Arg Leu Glu Leu Ser Val  
           1                  5                  10                  15  
 Pro Leu Ser Leu Leu Phe Ile Leu Gln Ile Val Thr Ser Leu Ser Ser  
                   20                  25                  30  
 Asp Glu Ile Cys Tyr Ser Thr Arg Lys Val Phe Ile Ile Arg Arg Gln  
           35                  40                  45  
 Leu Tyr Xaa  
           50

<210> 226  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 226  
 Met Cys Met Cys Val Gly Val Cys Leu Ile Thr Leu Leu Asp Arg Phe  
           1                  5                  10                  15  
 Leu Trp Phe Gly Thr Ala Gly Ala Lys Phe Ile Gln Lys Ser Thr Phe  
                   20                  25                  30  
 Leu Ser Lys Leu Pro Met Thr Leu Val Ser Phe His Ser Ile Xaa  
           35                  40                  45

<210> 227  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals stop translation

<400> 227  
 Met Cys Pro Phe His Lys Ala Tyr Leu Asp Cys Phe Phe Gln Ile Ser  
           1                  5                  10                  15  
 Leu Leu Leu Leu Ile Phe Leu Thr Tyr Leu Asp Ile Gly Lys Cys Gly  
           20                  25                  30

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<210> 231  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 231  
 Met Cys Ile His Tyr Ser Arg Val Ile Phe Ser Phe Leu Lys Leu Arg  
   1                  5                  10                  15  
 Ile Lys Ser Ile Ser Trp Tyr Ala Met Trp Leu Tyr Phe Phe Cys Tyr  
           20                  25                  30  
 Leu Asn Cys Leu Ala Lys Val Arg Ser Ala Thr Thr Tyr Leu Tyr Val  
           35                  40                  45  
 Xaa

<210> 232  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 232  
 Met Leu Pro Val Cys Val Phe Lys Leu Leu Leu Tyr Leu Tyr Val Leu  
   1                  5                  10                  15  
 Ile Arg Ile Cys Thr Ile Ile Trp Cys Phe Lys Val Tyr Ile Asn Ala  
           20                  25                  30  
 Val Ile Leu Asn Lys Ser Ser Arg Xaa  
           35                  40

<210> 233  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals stop translation

<400> 233  
 Met Asn Cys Gly Gly Ser Thr Leu Cys Val Leu Ser Phe Cys Ser Val

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<400> 235
Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa
  1                   5             10                15
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Ser Lys Tyr Phe Xaa  
65

<400> 238

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
20 25 30

Ser Arg Leu Val Lys Glu Lys Ile Ser Asn Thr Ser Gly Glu Lys Gly .  
20 25 30

Arg Trp Pro Ala Ile Asp Val Val Ala Leu Cys Pro Ser Arg Thr Ala  
           35                          40                          45

Gly Ile Ser Phe Pro Arg His Phe Leu Tyr Val Ser Cys Ile Val Gly  
           50                          55                          60

Cys Thr Asn Ile Ile Cys Ser Phe Gly Phe Pro Gly Gln Xaa  
           65                          70                          75

<210> 241  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals stop translation

<400> 241  
 Met Glu Val Val Leu Pro Lys His Ile Leu Asp Ile Trp Val Ile Val  
           1                          5                          10                          15

Leu Ile Ile Leu Ala Thr Ile Val Ile Met Thr Ser Leu Leu Cys  
                           20                          25                          30

Pro Ala Thr Ala Val Ile Ile Tyr Arg Met Arg Thr His Pro Ile Leu  
                           35                          40                          45

Ser Gly Ala Val Xaa  
           50

<210> 242  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals stop translation

<400> 242  
 Met Tyr Tyr Leu Gly Lys Trp Asp Ile Trp Gln Pro Val Ser Leu Leu  
           1                          5                          10                          15

Tyr Ile Ile Leu Phe Ala Ala Cys Pro Ser Leu Leu Ile Ser Ile Pro  
                           20                          25                          30

Ala Lys Ala Ser Gly Glu Gly Trp Arg Cys Gly Asp Ile Gln Leu Thr  
                           35                          40                          45

Val Val Thr Asp Xaa  
           50

<210> 243



30

Leu Asn Arg Ser Arg Ile Pro Thr Gln Ile Xaa  
65                      70                      75

<213> Homo sapiens

<223> Xaa equals stop translation.

Cys His His Ala Gln Trp Gly Leu Trp His Thr Thr Ala Glu Val Ser  
20 25 30

Gly Cys Gly Arg Asn His Leu Ala Phe Lys Ala Xaa  
35 40

<213> Homo sapiens

<223> Xaa equals stop translation

Met. Tyr Leu Ser Leu Phe Phe Phe Cys Phe Ser Leu Gln Ala Ser Ala  
1 5 10 15

Val Glu Glu Arg Ser Ala Glu Ser Ser Arg Glu Gly Pro Val Arg Thr  
20 25 30

Asp Asn Trp Gln Arg Cys Phe Gly Asp Ile Pro Gly Thr Pro Thr His  
35 40 45

Leu Val Gln Arg Ser Leu Val Leu Thr Cys Phe Gly Arg Val Leu Ser  
50 55 60

Xaa  
65



<221> SITE  
 <222> (57)  
 <223> Xaa equals stop translation

<400> 250  
 Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser  
           1                  5                  10                  15  
 Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe  
                   20                  25                  30  
 Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe  
           35                  40                  45  
 Phe Thr His Lys Cys Pro Asp Val Xaa  
           50                  55

<210> 251  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals stop translation

<400> 251  
 Met Arg Ala Cys Gly Trp Asp Leu Ser Ile Leu Leu Val Gly Leu Val  
           1                  5                  10                  15  
 Met Gly Arg Glu Gly Cys Tyr Ser Arg Leu Pro Pro Thr Glu Tyr Gln  
                   20                  25                  30  
 Lys Gln Ala Gly Ser Ser Gly Val Cys Lys Asp Val Arg Pro Arg Asn  
           35                  40                  45  
 Gln Pro Ser Pro Ser Tyr Pro Cys Lys Ser Leu Ser Pro His Ala Pro  
           50                  55                  60  
 Leu Leu Xaa  
           65

<210> 252  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 252  
 Met Tyr Leu Ile Leu Ser Trp Leu Phe Leu Cys Lys Leu Val Lys Cys  
           1                  5                  10                  15

03040603 032204



Thr Val Ile Val Thr Tyr Cys Gly Pro Leu Leu Arg Phe Xaa  
35 40 45

```
<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals stop translation
```

Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu  
20 25 30

Ser Cys Thr Ile Lys Xaa  
50

```
<220> .
<221> SITE
<222> (57)
<223> Xaa equals stop translation
```

Gly Asp Leu Cys Gly Phe Ser Thr Gln Ile His Pro Gly Val Ser Arg  
20 25 30

Val Pro Arg Ala Ala Asn Lys Gly Xaa  
50 55

```
<210> 255
<211> 42
<212> PRT
<213> Homo sapiens
```

```

<400> 255
Met Phe Val Lys Tyr His Val Ile Met Val Ile Ile Phe Ile Phe Ile
  1             5             10             15
Leu Ile Thr Ser Asp Lys His Gly Glu Ile Ile Tyr Ile Lys Tyr Ile
          20             25             30
Asp Arg Val Ile Ile Thr Glu Arg Ile Xaa
      35             40

```

```
<220>  
<221> SITE  
<222> (161)  
<223> Xaa equals stop translation
```

<400> 256

Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr Leu Ser Arg Val Leu  
1 5 10 15

Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala Arg Gln Pro Arg Ile  
20 25 30

Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu Ile Arg Thr Ile Arg  
35 40 45

Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu Glu Val Val Ser Glu  
50 55 60

Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu Glu Tyr Leu Val Ile  
65 70 75 80

Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser Leu Ala Thr Leu Ile  
85 90 95

Gly Leu Cys Leu Arg Val Lys Leu Gln Arg Cys Leu Pro Phe Lys His  
100 105 110

Lys Leu Glu Ile Tyr Ile Ser Glu Gly Thr His Ser Thr Glu Glu Asp  
115 120 125

Ile Asn Lys Gln Ile Asn Asp Lys Glu Arg Val Ala Ala Met Glu  
130 135 140

Asn Pro Asn Leu Arg Glu Ile Val Glu Gln Cys Val Leu Glu Pro Asp  
145 150 155 160

Xaa

```

<400> 258
Met Leu Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp Pro Val Ala Thr
  1              5              10              15

Leu Ala Ala Val Met Thr Glu Lys Ser Pro Phe Thr Thr Pro Ile Gly
                20              25              30

Arg Lys Asp Glu Ala Asp Leu Ala Lys Ser Ala Leu Ala Met Ala Asp
        35              40              45

Ser Asp His Leu Thr Ile Tyr Asn Ala Tyr Leu Gly Trp Lys Lys Ala
    50              55              60

Arg Gln Glu Gly Gly Tyr Arg Ser Glu Ile Thr Tyr Cys Arg Arg Asn
    65              70              75              80

Phe Leu Asn Arg Thr Ser Leu Leu Thr Leu Glu Asp Val Lys Gln Glu
                85              90              95

Leu Ile Lys Leu Val Lys Ala Ala Gly Phe Ser Ser Ser Thr Thr Ser
    100              105              110

```

Gly Phe Ser Gly Xaa  
65

<210> 260  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals stop translation

<400> 260  
 Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met  
 1 5 10 15  
 Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg  
 20 25 30  
 Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr  
 35 40 45  
 Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met  
 50 55 60  
 Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg  
 65 70 75 80  
 Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu  
 85 90 95  
 Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg  
 100 105 110  
 Phe Tyr Val Ser Val Lys Val Phe Lys Xaa  
 115 120

<210> 261  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 261  
 Met Gly Lys Ile Cys Lys Asn Trp Val Ser Phe Leu Asp Asn Val Leu  
 1 5 10 15  
 Leu Leu Ile Leu Phe Leu Tyr Gly Leu Cys Leu Gly Trp Leu Cys Ile  
 20 25 30  
 Tyr His Gln Ser Tyr Ser Thr Ala Cys Ile Cys Val Val Thr Asp Ala  
 35 40 45  
 Glu Ile Gln Gln Lys Ser Leu His Ser Ile Xaa

05618683 032504

55

```
<220>
<221> SITE
<222> (68)
<223> Xaa equals stop translation
```

<400> 262  
Met Leu Val Leu Leu Trp Leu Gly Trp Ile Ser Ser Lys Ser Met Leu  
1 5 10 15

Ala Ala Tyr Phe Val Ala Pro Lys Tyr Pro Leu Lys Leu Ala Leu Val  
20 25 30

Ser Glu Pro Glu Ser Ser Ser Leu Ile Leu Lys Phe Leu Ser Leu Lys  
35 40 45

Asp Phe Leu Cys Cys Tyr Thr Thr Lys Leu Ser Val Asn Pro Pro Leu  
50 55 60

Leu Asn Asp Xaa  
65

```
<210> 263
<211> 46
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation
```

<400> 263  
Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe  
1 5 10 15

Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu  
20 25 30

Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu Xaa  
35 40 45

```
<210> 264
<211> 71
<212> PRT
<213> Homo sapiens
```

<220>  
<221> SITE  
<222> (71)

<400> 264  
Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser  
1 5 10 15  
Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly  
20 25 30  
Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys  
35 40 45  
Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys  
50 55 60  
Cys Ile Gly Ile Cys Arg Xaa  
65 70

```
<210> 265
<211> 41
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals stop translation
```

```

<400> 265
Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
  1                               10                          15
Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
                               20                          25                          30
Val Ser Gln Lys Arg Gly His Ile Xaa
      35                          40

```

```
<210> 266
<211> 72
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals stop translation
```

```

<400> 266
Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
  1              5              10              15
Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His
          20          25          30
Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu
      35          40          45

```

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
 50 55 60

Ser Val Thr Lys Thr Phe Leu Xaa  
 65 70

<210> 267  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
 Gly Arg Ala Phe Ala Leu Arg Thr Met Leu Pro Val Val Ser Ser Val  
 1 5 10 15

Phe Ala Leu Pro Phe Tyr Leu Asn Phe Arg Ile Tyr Tyr Phe Lys Ile  
 20 25 30

Leu Ser Tyr Leu Asn Val Ile His Phe Ser Ser Thr Asn Phe Glu Tyr  
 35 40 45

His Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala  
 50 55 60

Lys Leu Gly Leu Arg Phe Gly Gly Phe Arg Ser Arg Val Leu Ser Gly  
 65 70 75 80

Gly Ser Ala Ser Asn Ala Asp Trp Arg Phe Cys Ser Asn Ala Phe Ala  
 85 90 95

Ser Ser Ala His  
 100

<210> 268  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 268  
 Leu Pro Val Val Ser Ser Val Phe Ala Leu Pro Phe Tyr Leu Asn Phe  
 1 5 10 15

Arg Ile Tyr Tyr Phe  
 20

<210> 269  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala Lys  
 1 5 10 15

Leu Gly Leu Arg Phe



```
<210> 270
<211> 20
<212> PRT
<213> Homo sapiens
```

Ala Asp Trp Arg  
20

```
<210> 271
<211> 21
<212> PRT
<213> Homo sapiens
```

Phe Glu Tyr His Ser  
20

```
<210> 272
<211> 140
<212> PRT
<213> Homo sapiens
```

Ser Leu Ser Asp Ser Gly Thr Lys Arg Met Ala Ala Gly Val Arg Met  
20 25 30

Glu Cys Gln Ser Lys Gly Arg Cys Pro Ser Ser Cys Pro Leu Cys His  
35 40 45

Val Thr Ser Ser Pro Asp Thr Pro Ala Glu Pro Val Leu Leu Glu Val  
50 55 60

Thr Lys Ala Ala Pro Ile Tyr Glu Leu Val Thr Asn Asn Gln Thr Gln  
65 70 75 80

Arg Leu Leu Gln Glu Ala Thr Met Ser Ser Leu Trp Cys Ser Gly Thr  
85 90 95

Gly Asp Val Ile Glu Asp Trp Cys Arg Cys Asp Ser Thr Ala Phe Gly  
100 105 110

Ala Asp Gly Leu Pro Thr Cys Ala Pro Leu Pro Gln Pro Val Tyr Gly  
115 120 125

```
<210> 277
<211> 84
<212> PRT
```

<400> 277

Asp Pro Lys Cys

<400> 278

Cys Arg Cys Asp Ser  
20

<213> Homo sapiens

<400> 279

Tyr Val  
50

<213> Homo sapiens

&lt;400&gt; 280

Leu Ser Pro Leu Leu Ser Asn Glu Leu His Arg Gln Arg Ser Pro Gly  
 1 5 10 15

Val Ser Phe Gly Leu  
 20

&lt;210&gt; 281

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

Leu Ser Val Phe Asn Leu Met Asn Ala Ile Met Gly Ser Gly Ile Leu  
 1 5 10 15

Gly Leu Ala Tyr Val  
 20

&lt;210&gt; 282

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

His Leu Gly Arg Gly Phe Val Pro Gly Ile Leu Gly His Trp Leu Gly  
 1 5 10 15

Phe Glu Glu Arg Ser Gln Tyr Leu Pro Gly Cys Arg  
 20 25

&lt;210&gt; 283

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

Phe Tyr Ile Ala Asp His Ser Phe Thr Ala Arg Pro Thr Leu Arg Met  
 1 5 10 15

Phe Arg Ile Ser Ala Val Val Ala Thr Asp Lys Met Thr Phe Thr Ser  
 20 25 30

Gly Gly Thr Leu Phe Gly Asp Gly Cys Ala Ser Ser Val Ala Gly Glu  
 35 40 45

Val Met Asn Cys Gln Thr Val Leu Cys Ile Leu Trp Thr Pro Phe Val  
 50 55 60

Phe Cys Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser  
 65 70 75 80

Lys Ala Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg Arg Pro  
 85 90 95

His Ile Ile Glu Val Asp Val Leu Gly Lys Cys Pro Ala Phe

T03250" E3937360

100

105

110

<210> 284  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 284  
 Arg Pro Thr Leu Arg Met Phe Arg Ile Ser Ala Val Val Ala Thr Asp  
 1 5 10 15

Lys Met Thr Phe Thr Ser Gly Gly Thr  
 20 25

<210> 285  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser Lys Ala  
 1 5 10 15

Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg  
 20 25

<210> 286  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 286  
 Thr Ser Val Ser Phe His His Arg Tyr Lys Ser Ser Asp Arg Pro Ala  
 1 5 10 15

His Lys Val Ser  
 20

<210> 287  
 <211> 1187  
 <212> DNA  
 <213> Homo sapiens

<400> 287  
 GGGTCGACCC ACGCGTCCGG TAAATATAA AGAAACTGAA CCAGTGTGTC TTTTCACCAT 60  
 AGATATAAGA GTTCGGACCG CCCAGCACAC AAGGTCAGCA TGCTGCTCCT CTGTCACGCT 120  
 CTCGCTATAG CTGTTGTCCA GATCGTTATC TTCTCAGAAA GCTGGGCATT TGCCAAGAAC 180  
 ATCAACTTCT ATAATGTGAG GCCTCCTCTC GACCCTACAC CATTTCCTCAA TAGCTTCAAG 240  
 TGCTTTACTT GTGAAAACGC AGGGGATAAT TATAACTGCA ATCGATGGGC AGAAGACAAA 300  
 TGGTGTCCAC AAAATACACA GTACTGTTTG ACAGTTCATC ACTTCACCAG CCACGGAAGA 360

AGCACATCCA TCACCAAAAA GTGTGCCTCC AGAAGTGAAT GTCATTTTGT CGGTTGCCAC 420  
 CACAGCCGAG ATTCTGAACA TACGGAGTGT AGGTCTTGCT GTGAAGGAAT GATCTGCAAT 480  
 GTAGAATTAC CCACCAATCA CACTAATGCA GTGTTTGCCG TAATGCACGC TCAGAGAACA 540  
 TCTGGCAGCA GTGCCCCCAC ACTCTACCTA CCAGTGCTTG CCTGGGTCTT TGTGCTTCCA 600  
 TTGCTGTGAT GCCACCATT C TAGGAGAGG CAGAGACCAG CCTCTAAAGC ACAAGCCAAA 660  
 AACTGTGTGA ACGGTGAACT TTGGAGTGAA GATCAATCTT GCACTTGGTG AAGAGTGCAC 720  
 ATTGGACCTC AAGGCGAAAG CCAGTGGTTT GCTTGATAA AATGTTCCCG CATGAGGCCA 780  
 CAGGACTGAG GATGGGAATT TGGCAGGGCC TGAGAAGATG GTCTGACTTC CAGGCTTCCT 840  
 GGTCAAAGAG AGCTACGTTT GGGCAGTTCT GCAGAGAGGA TCCTGGCAAC TAGTCCCACC 900  
 TGA CTAGGCC TTTAGCTGAA AAGGATTTCT TGACCTCCTT GACTGCCTCA GAGGCTGCCA 960  
 GGTCAAACCC TCTTGTTTAT GTGATTAGCT CAGAGCATCT CTATGAAATC TAACCCCTCC 1020  
 CCTCATGAGA AAGCAGTTTT CCCCAACCAAC AGCATAGTCA ATGAGAAAGG CAACTGTACG 1080  
 AAGAAAACTT CCAGTGGAACT TAATATGAAA TCTATTTGCA AATTATGGGG GGAAATAAAG 1140  
 CTTTAAATT ATACAATGTA AAAAAAAAAA AAAAAAAAAA AAAAAA 1187

<210> 288  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<400> 288  
 Met Leu Leu Leu Cys His Ala Leu Ala Ile Ala Val Val Gln Ile Val  
 1 5 10 15  
 Ile Phe Ser Glu Ser Trp Ala Phe Ala Lys Asn Ile Asn Phe Tyr Asn  
 20 25 30  
 Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser Phe Lys Cys  
 35 40 45  
 Phe Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala  
 50 55 60  
 Glu Asp Lys Trp Cys Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His  
 65 70 75 80  
 His Phe Thr Ser His Gly Arg Ser Thr Ser Ile Thr Lys Lys Cys Ala  
 85 90 95  
 Ser Arg Ser Glu Cys His Phe Val Gly Cys His His Ser Arg Asp Ser  
 100 105 110  
 Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile Cys Asn Val

115 120 125  
 Glu Leu Pro Thr Asn His Thr Asn Ala Val Phe Ala Val Met His Ala  
 130 135 140  
 Gln Arg Thr Ser Gly Ser Ser Ala Pro Thr Leu Tyr Leu Pro Val Leu  
 145 150 155 160  
 Ala Trp Val Phe Val Leu Pro Leu Leu  
 165

<210> 289  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 289  
 Ile Ala Val Val Gln Ile Val Ile Phe Ser Glu Ser Trp Ala Phe Ala  
 1 5 10 15

Lys Asn Ile Asn Phe  
 20

<210> 290  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 290  
 Phe Tyr Asn Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser  
 1 5 10 15

Phe Lys Cys Phe Thr  
 20

<210> 291  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala Glu  
 1 5 10 15

Asp Lys Trp Cys Pro  
 20

<210> 292  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His His Phe Thr Ser His  
 1 5 10 15

Gly Arg Ser Thr Ser  
20

<210> 293  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 293  
Ser Ile Thr Lys Lys Cys Ala Ser Arg Ser Glu Cys His Phe Val Gly  
1 5 10 15

Cys His His Ser Arg  
20

<210> 294  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 294  
Arg Asp Ser Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile  
1 5 10 15

Cys Asn Val Glu Leu  
20

<210> 295  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 295  
Arg His Asn Asp Phe Asn Lys Leu Ser Tyr Thr Glu Cys Asn Asn Met  
1 5 10 15

Asn Lys Arg Met Ala Lys Pro Glu Lys Lys Lys Gly Ser Val Lys Ser  
20 25 30

Ser Leu Gly Ile Phe Leu Gly Pro Asn Cys His Leu Ile Ser Ser Leu  
35 40 45

Phe Leu Phe Ser Val Ser Leu Tyr Pro Phe Ala Thr Gln Phe Pro Phe  
50 55 60

His Tyr Val Leu Ile Phe Ile Ile Gln Ala Phe Gly Leu Cys Leu Pro  
65 70 75 80

Leu Thr Glu Arg Gln Glu Ala Lys Ser Gly Leu Gly Gly Leu Cys Pro  
85 90 95

Asp Tyr Thr Trp Pro Cys Pro Cys Leu Leu Val Ser Cys Leu Ser Leu  
100 105 110

Leu Arg Leu

09242526272829



```
<210> 296
<211> 114
<212> PRT
<213> Homo sapiens
```

```

<400> 296
Cys Glu Val Phe Ser Trp His Phe Pro Trp Ser Lys Leu Ser Pro His
  1                               10                      15
Leu Phe Leu Val Ser Phe Leu Cys Ile Pro Leu Ser Leu Cys His Thr
                               20                      25                      30
Val Ser Phe Ser Leu Cys Ser Asn Ile Tyr Asn Pro Gly Leu Arg Thr
                               35                      40                      45
Met Leu Ala Pro His Arg Glu Thr Gly Gly Gln Val Trp Ala Gly Trp
                               50                      55                      60
Ala Leu Ser Arg Leu His Val Ala Leu Pro Met Ser Leu Gly Val Leu
                               65                      70                      75
Ser Leu Pro Ala Pro Thr Val Thr Val Val Arg Met Glu Gly Gly Asp
                               85                      90                      95
Trp Lys Val Cys Glu Gln Leu Gly Gln Cys Thr Tyr Ser His Arg Met
                               100                      105                      110
Thr Lys

```

```
<210> 297
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 297  
Lys Arg Met Ala Lys Pro Glu Lys Lys Lys Gly Ser Val Lys Ser Ser  
1 5 10 15  
Leu Gly Ile Phe Leu Gly Pro  
20

```
<210> 298
<211> 31
<212> PRT
<213> Homo sapiens
```

<400> 298  
Tyr Asn Pro Gly Leu Arg Thr Met Leu Ala Pro His Arg Glu Thr Gly  
1 5 10 15  
Gly Gln Val Trp Ala Gly Trp Ala Leu Ser Arg Leu His Val Ala  
20 25 30

<400> 299  
Ser Cys Lys Thr Glu Asn Leu Leu Glu  
1 5

<400> 300  
Glu Cys Gly Ser Trp Ala Gly Phe His Thr Ser Ser Phe Pro Arg Pro  
1 5 10 15

Leu His Thr Ala Gly Phe Ile Phe Gly Ala Ala Pro Arg Gly Asn Lys  
35 40 45

```
<210> 301
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 301  
Thr Ser Ser Phe Pro Arg Pro Ser Ala Leu Ala Leu Ala Ala Trp Arg  
1 5 10 15

Arg Trp Gly Ser Ile  
20

```
<210> 302
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 302  
Ile Cys His Leu His Thr Ala Gly Phe Ile Phe Gly Ala Ala Pro Arg  
1 5 10 15

Gly Asn Lys Cys Arg  
20

```
<210> 303
<211> 25
<212> PRT
```

<400> 303

Asp Pro Gln Ile Ser Leu Trp Val Leu  
20 25

<210> 304:

<211> 251

<212> PRT

<213> Homo sapiens

<400> 304

Met Ser Pro Tyr Ala Ser Gln Gly Phe Pro Phe Leu Pro Pro Tyr Pro  
1 5 10 15

Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu Ser Val Ala Asp Thr  
20 25 30

Val Ser Ser Ser Thr Thr Ser His Thr Thr Ala Lys Pro Ala Ala Pro  
35 40 45

Ser Phe Gly Val Leu Ser Asn Leu Pro Leu Pro Ile Pro Thr Val Asp  
50 55 60

Ala Ser Ile Pro Thr Ser Gln Asn Gly Phe Gly Tyr Lys Met Pro Asp  
65 70 75 80

Val	Pro	Asp	Ala	Phe	Pro	Glu	Leu	Ser	Glu	Leu	Ser	Val	Ser	Gln	Leu
				85					90					95	

Thr Asp Met Asn Glu Gln Glu Glu Val Leu Leu Glu Gln Phe Leu Thr  
100 105 110

Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp Asp Leu Val Lys  
115 120 125

Ser Ile Glu Glu Leu Ala Arg Lys Asn Leu Leu Leu Glu Pro Ser Leu  
130 135 140

Glu Ala Lys Arg Gln Thr Val Leu Asp Lys Tyr Glu Leu Leu Thr Gln  
145 150 155 160

Met Lys Ser Thr Phe Glu Lys Lys Met Gln Arg Gln His Glu Leu Ser  
165 170 175

Glu Ser Cys Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala  
180 185 190

His Glu Ala Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu  
195 200 205

Gly Lys Met Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg  
210 215 220

Thr Ile Cys His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala

225                      230                      235                      240  
 Ile Ala Met His Ser Gln Phe His Ala Pro Leu  
                                  245                                   250

<210> 305  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 305  
 Leu Pro Pro Tyr Pro Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu  
   1                                 5                                 10                                 15  
 Ser Val Ala Asp Thr Val Ser  
                                  20

<210> 306  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 306  
 Thr Ala Lys Pro Ala Ala Pro Ser Phe Gly Val Leu Ser Asn Leu Pro  
   1                                 5                                 10                                 15  
 Leu Pro Ile Pro Thr Val Asp Ala Ser Ile Pro  
                                  20                                 25

<210> 307  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Pro Asp Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val Ser  
   1                                 5                                 10                                 15  
 Gln Leu Thr Asp Met Asn Glu Gln Glu  
                                  20                                 25

<210> 308  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Gln Phe Leu Thr Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp  
   1                                 5                                 10                                 15  
 Asp Leu Val Lys Ser Ile Glu Glu Leu Ala Arg Lys Asn  
                                  20                                 25

<210> 309

<400> 309

Thr Phe Glu Lys Lys Met Gln Arg Gln  
20 25

 $\langle 400 \rangle$  310

Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu  
20 25

 $\langle 400 \rangle$  311

Leu Gln Gln Ala Ile Ala Met His Ser Gln Phe  
20 25

<400> 312

Cys Leu Leu

<400> 313

Glu Phe Gly Thr Arg Lys Ser Lys Ser Lys Ile Asn Ile Lys Glu Glu  
 1 5 10 15

<210> 314  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Gly Thr Ser Ser Lys Val Val Thr Gln Lys Val His Leu Ser Ser Val  
 1 5 10 15

Glu Phe Pro Phe  
 20

<210> 315  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Thr Arg Pro Val Phe Leu Ser Met Thr Pro Leu Lys Gly Ile Lys Ser  
 1 5 10 15

Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met Ala Ala Phe Asn  
 20 25 30

Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro Leu Glu Arg Ser  
 35 40 45

Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe Leu Gly Val Ile  
 50 55 60

Pro Gln Phe Val Gln  
 65

<210> 316  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 316  
 Pro Leu Lys Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys  
 1 5 10 15

Ala Tyr Met Ala Ala  
 20

<210> 317  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 317

0084863 072304

Leu Asp Ser Ser Trp Lys Leu Gln Ile Asn Ser Asn Asp Cys Lys Val  
115 120 125

```
<210> 321
<211> 30
<212> PRT
<213> Homo sapiens
```

```
<210> 322
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<210> 323_
<211> 10
<212> PRT
<213> Homo sapiens
```

```
<210> 324
<211> 50
<212> PRT
<213> Homo sapiens
```

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly  
35 40 45

Arg Ile  
50



Thr Pro Phe Ser Gly Ala Ser Thr Ser Gln Ala Phe

65

70

75

<210> 329  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 329  
 Thr Pro Leu Leu Ser Pro Cys Leu Gln Pro Leu Pro Gly Val  
 1 5 10

<210> 330  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 330  
 Thr Arg Arg Ser Cys Ser Ser Gln Val Ser Ser  
 1 5 10

<210> 331  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Gly Arg Gly Asp Lys Pro Arg Gln Asp Arg Pro Ala Ser Leu Arg Leu  
 1 5 10 15

Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His Ser Ser Thr Leu  
 20 25 30

Ser Ser His Cys Pro Cys Ser Leu Phe Ala Cys Gly Ser Val Trp Pro  
 35 40 45

Gly Ser Leu Gly Ser Gly Ile Phe Ala Arg Leu Ser Gln Leu Leu Pro  
 50 55 60

Ser Pro Ala Ser Trp Gly Trp Asp Phe Leu Thr Leu Arg Gln Ala Gln  
 65 70 75 80

Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala His  
 85 90 95

Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys Ser Phe Leu  
 100 105 110

Leu Thr Ser Thr Val Gln Gly Thr Ala Pro Leu Lys Asn Ser Arg Val  
 115 120 125

Thr Cys Leu Ile Gly Ser Gln Gln Val Pro Leu Cys  
 130 135 140

<210> 332  
 <211> 146

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 332

Ala Glu Val Thr Ser Pro Ala Lys Thr Asp Leu Gln Val Phe Val Ser  
 1 5 10 15

Arg Asp Leu Pro His Ala Arg Pro Leu Pro Leu Thr Ala Ala Pro Phe  
 20 25 30

Pro Leu Ile Val Pro Val Pro Phe Leu Pro Val Asp Leu Phe Gly Gln  
 35 40 45

Gly Pro Trp Gly Gln Glu Tyr Leu Gln Asp Ser Ala Ser Ser Phe Pro  
 50 55 60

Ala Gln Pro Leu Gly Ala Gly Thr Phe Ser Pro Cys Gly Arg His Asn  
 65 70 75 80

Arg Cys Trp Asp Pro Val Ser Ala Gln Val Thr Ala Gln Val His Ile  
 85 90 95

Ser Thr Met Gly Pro Met Ser Cys Pro Glu Thr Ser Ala Pro Ser Cys  
 100 105 110

Ser His Pro Gln Phe Arg Ala Arg Arg Pro Ser Arg Thr Pro Glu Ser  
 115 120 125

Pro Val Ser Ser Ala Pro Ser Lys Cys Leu Phe Val Tyr Asp Val Pro  
 130 135 140

Leu Leu  
 145

&lt;210&gt; 333

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

Ser Leu Arg Leu Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His  
 1 5 10 15

Ser Ser Thr Leu Ser Ser His Cys Pro Cys Ser Leu Phe Ala  
 20 25 30

&lt;210&gt; 334

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 334

Gln Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala  
 1 5 10 15

His Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys  
 20 25 30

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 T08269-2897650

<400> 335  
Asp Leu Gln Val Phe Val Ser Arg Asp Leu Pro His Ala Arg Pro Leu  
1 5 10 15

```
<210> 336
<211> 39
<212> PRT
<213> Homo sapiens
```

Ser Ala Pro Ser Cys Ser His Pro Gln Phe Arg Ala Arg Arg Pro Ser  
20 25 30

```
<210> 337
<211> 17
<212> PRT
<213> Homo sapiens
```

Leu

```
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
```



305

310

&lt;210&gt; 339

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 339

Gly	Gln	Pro	Ser	Gly	Pro	Pro	Ala	Ala	Trp	Pro	Gly	Pro	Ser	Gly	His
1				5					10					15	

Gly	Ser	Thr	Gly	Val	Ala	Ala	Gly	Gly	Ser	Thr	Xaa	Ser	Ser	Leu	Asn
			20					25						30	

Lys	Trp	Ile	Phe	Thr	Val	His	Gly	Phe	Gly	Arg	Pro	Leu	Leu	Leu	Ser
		35					40						45		

Ala	Leu	His	Met	Leu	Val	Ala	Ala	Leu	Ala	Cys	His	Arg	Gly	Ala	Arg
	50					55						60			

Arg	Pro
65	

&lt;210&gt; 340

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 340

Trp	Pro	Gly	Pro	Ser	Gly	His	Gly	Ser	Thr	Gly	Val	Ala	Ala	Gly	Gly
1				5					10					15	

Ser	Thr	Xaa	Ser	Ser
			20	

&lt;210&gt; 341

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 341

T09250 "E999T960"

Lys Pro Gln Gln Val Asp Leu His Ser Ala  
20 25

<400> 342  
Gln Gln Ser Ala Leu Leu Gln Glu Glu Arg Leu Asp Ala Val Thr Leu  
1 5 10 15

```
<210> 343
<211> 27
<212> PRT
<213> Homo sapiens.
```

<400> 343  
Ala Cys Ile Leu Leu Ser Cys Leu Leu Ser Val Leu Tyr Asn Leu Ala  
1 5 10 15

Ser Phe Ser Leu Leu Ala Leu Thr Ser Ala Leu  
20 25

```
<210> 344
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 344  
Ser Leu Asn Lys Trp Ile Phe Thr Val His Gly Phe Gly Arg Pro Leu  
1 5 10 15

Leu Leu Ser Ala Leu  
20

```
<210> 345
<211> 28
<212> PRT
<213> Homo sapiens
```

<400> 345  
Glu Phe Gly Thr Ser Arg Ala Arg Leu Gln Leu Lys Lys Asn Lys Lys  
1 5 10 15

Lys Glu Arg Asn Ile Pro Gly Thr Leu Leu Ser Ile  
20 25

<210> 346  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 346  
 Lys Ser Thr Leu Ser Ala Ala Val Val Ala Thr Ile Leu Arg Thr Leu  
 1 5 10 15  
 Ala

<210> 347  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Gly Asp His Ser Glu Gln Cys Leu Ile Lys Glu Met Gly Ala Arg Glu  
 1 5 10 15  
 Arg Arg Phe Cys Lys Ala Arg Gly Tyr Arg Asp Thr Gly Arg Glu Ala  
 20 25 30  
 Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln  
 35 40 45  
 Cys Ser Ser Gln Arg Pro Arg Pro Ala Lys Glu Val Arg Lys Thr Arg  
 50 55 60  
 Pro Arg Ala Gly Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu  
 65 70 75 80  
 Leu Gln Gln Val Val Leu Tyr Val Arg Pro Ser Leu Arg Leu Val Trp  
 85 90 95  
 Leu Lys Ala Ser  
 100

<210> 348  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Met Glu Arg Gly Glu Tyr Gly Gly Trp Gly Thr Tyr Gly Ser Leu Asp  
 1 5 10 15  
 Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser Gly Pro Cys Gly Ser  
 20 25 30  
 Leu His Trp Gly Gln His Arg Ser Pro Ile Ser Gly Pro Asp Pro Asn  
 35 40 45  
 Pro Ser Ser Ser Arg Gly Gln Gln Ser Ile Gly Ser Lys Val Gly Ser  
 50 55 60



Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val Gly Arg Asp Pro  
65 70 75 80

Glu Lys Gly Glu

<210> 349

<211> 23

<212> PRT

<213> Homo sapiens

<400> 349

Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln  
1 5 10 15

Cys Ser Ser Gln Arg Pro Arg  
20

<210> 350

<211> 26

<212> PRT

<213> Homo sapiens

<400> 350

Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu Leu Gln Gln Val  
1 5 10 15

Val Leu Tyr Val Arg Pro Ser Leu Arg Leu  
20 25

<210> 351

<211> 22

<212> PRT

<213> Homo sapiens

<400> 351

Tyr Gly Ser Leu Asp Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser  
1 5 10 15

Gly Pro Cys Gly Ser Leu  
20

<210> 352

<211> 20

<212> PRT

<213> Homo sapiens

<400> 352

Lys Val Gly Ser Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val  
1 5 10 15

Gly Arg Asp Pro  
20

001663 032801

<400> 353

Gly

<220>

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 354

Tyr Gly His Cys Gln Ile Lys Asp Met Val Lys Ala Gly Leu Gly Val  
165 170 175

<400> 358  
Leu Pro Val Gly Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His  
1 5 10 15

```
<210> 359
<211> 29
<212> PRT
<213> Homo sapiens
```

His Leu Asp Thr Tyr Pro Ala Trp Ala Arg Val Ser Asn  
20 25

```
<210> 360
<211> 83
<212> PRT
<213> Homo sapiens
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```
<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 360  
Leu Glu His Phe Asn Asn Gln Tyr Pro Ala Ala Glu Val Val Asn Phe  
1 5 10 15

Gly Thr Trp Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val  
20 25 30

Val Ser Trp Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys  
35 40 45

Glu Thr Cys Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu  
50 55 60

Ser Glu Lys Xaa Xaa Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser  
65 70 75 80

Tyr Pro Glu

```
<210> 361
<211> 36
<212> PRT
<213> Homo sapiens
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<400> 361  
Gln Glu Leu Trp Pro Leu Tyr Met Asp Trp Glu Pro Asp Val Val Pro

Val His Cys His  
35

<400> 362  
Ser Thr His Ala Ser Gly Gly Gly Arg Arg Gly Arg Gly Pro Arg Gly  
1 5 10 15

Arg Ser Thr Gly Ala  
35

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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

```

<400> 363  
Glu Thr Cys Pro Ser Asn Gly Ile Glu Leu Arg Gln Ala Pro Thr Ser  
1 5 10 15

Leu Tyr Ile Leu Leu Leu His Ile Gln Pro Thr Pro Thr His Pro Met  
20 25 30

Leu Gly Arg Ser Tyr Val Leu Pro Ala Phe Ser Xaa Asn Xaa Glu His  
35 40 45

Gly Gly Leu Pro Asn Gln Ile Pro Lys Gly Asp Arg Asn Gly Asn Ile  
50 55 60

Arg His Ser Arg Ile Thr Phe Pro Cys Ser Ser Ser Thr Leu Gln Pro  
65 70 75 80

Glu Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg  
85 90 95

<400> 366  
Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg Pro  
1 5 10 15

Gly Lys Asp Leu Arg Gly Arg Arg Ser  
20 25

<210> 367  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 367  
Arg Asn Val His Arg Phe Leu His Thr Cys Val His Met Pro Met Cys  
1 5 10 15

Thr His Thr His Thr Gln  
20

<210> 368  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 368  
Gln Leu Arg Gln Glu Lys Ala Leu Glu Leu Thr Glu Val Tyr Val Ser  
1 5 10 15

Ala Ser Leu Lys Leu Gln Leu Tyr His  
20 25

<210> 369  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 369  
Pro Arg Val Arg Gly Arg Lys Glu Pro Gly Cys Leu Gly Pro Gly Arg  
1 5 10 15

Ala Gly Gly Asp Ser Gln Lys Glu Ile Gly Ser Trp Gln Gln Met  
20 25 30

<210> 370  
<211> 296  
<212> PRT  
<213> Homo sapiens

<400> 370  
Leu Ser Lys Gly Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp  
1 5 10 15

Gly Thr Ser Leu Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn Asn  
20 25 30

Asp Glu Gly Ser Leu Asp Ile Tyr Ala Gly Leu Asp Ser Ala Val Ser  
35 40 45

Asp Ser Ala Ser Lys Ser Cys Val Pro Ser Arg Asn Cys Leu Asp Leu  
50 55 60

Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys Glu Ala Thr Tyr  
65 70 75 80

Asn Asp Leu Gln Val Glu Tyr Gly Lys Cys Gln Leu Gln Met Lys Glu  
85 90 95

Leu Met Lys Lys Phe Lys Glu Ile Gln Thr Gln Asn Phe Ser Leu Ile  
100 105 110

Asn Glu Asn Gln Ser Leu Lys Lys Asn Ile Ser Ala Leu Ile Lys Thr  
115 120 125

Ala Arg Val Glu Ile Asn Arg Lys Asp Glu Glu Ile Ser Asn Leu His  
130 135 140

Gln Lys Ile Val Leu Ser Phe His Ile Phe Glu Ile Ile Ile Lys Leu  
145 150 155 160

Gln Gly His Leu Ile Gln Leu Lys Gln Lys Ile Leu Asn Leu Asp Leu  
165 170 175

His Ile Trp Met Ile Val Gln Arg Leu Ile Thr Arg Ala Lys Ser Asp  
180 185 190

Val Ser Lys Asp Val His His Ser Thr Ser Leu Pro Asn Leu Glu Lys  
195 200 205

Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu Pro Thr  
210 215 220

Ser Val Glu Lys His Cys Thr Asn Gly Val Trp Ser Arg Ser His Tyr  
225 230 235 240

Gln Val Gly Glu Gly Ser Ser Asn Glu Asp Ser Arg Arg Gly Arg Lys  
245 250 255

Asp Ile Arg His Ser Gln Phe Asn Arg Gly Thr Glu Arg Val Arg Lys  
260 265 270

Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu Pro Arg Ile Leu Glu Ala  
275 280 285

Ser Gln Arg Leu Gln Gly Thr Ser  
290 295

<210> 371

<211> 27

<212> PRT

<213> Homo sapiens

<400> 371

Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp Gly Thr Ser Leu  
1 5 10 15

Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn

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25

<400> 372  
Cys Leu Asp Leu Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys  
1 5 10 15

```
<210> 373
<211> 26
<212> PRT
<213> Homo sapiens
```

<400> 373  
Asp Glu Glu Ile Ser Asn Leu His Gln Lys Ile Val Leu Ser Phe His  
1 5 10 15

Ile Phe Glu Ile Ile Ile Lys Leu Gln Gly  
20 25

```
<210> 374
<211> 22
<212> PRT
<213> Homo sapiens
```

<400> 374  
Glu Lys Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu  
1 5 10 15

Pro Thr Ser Val Glu Lys  
20

```
<210> 375
<211> 26
<212> PRT
<213> Homo sapiens
```

<400> 375  
Thr Glu Arg Val Arg Lys Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu  
1 5 10 15

Pro Arg Ile Leu Glu Ala Ser Gln Arg Leu  
20 25

```
<210> 376
<211> 115
<212> PRT
<213> Homo sapiens
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Thr Arg Pro Arg Arg His Leu Gly Gly Gln Pro Gly Ala Leu His Gly  
1 5 10 15

Gln Ala Ala Cys Val His Val Pro Cys Leu Val Pro Leu Cys Pro Pro  
20 25 30

Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu Gln Lys Gln  
35 40 45

Pro Leu Gly Gly Arg Gly Arg Lys  
50 55

<210> 380

<211> 21

<212> PRT

<213> Homo sapiens

<400> 380

Gln Pro Gly Ala Leu His Gly Gln Ala Ala Cys Val His Val Pro Cys  
1 5 10 15

Leu Val Pro Leu Cys  
20

<210> 381

<211> 21

<212> PRT

<213> Homo sapiens

<400> 381

Cys Pro Pro Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu  
1 5 10 15

Gln Lys Gln Pro Leu  
20

<210> 382

<211> 28

<212> PRT

<213> Homo sapiens

<400> 382

Pro Asp Ala Gly Thr Ala Ser Ser Gln Arg Glu Pro Arg Arg Cys Arg  
1 5 10 15

Ala Gly Glu Ala Pro Ser Leu Pro Ala Cys Ala Pro  
20 25

<210> 383

<211> 40

<212> PRT

<213> Homo sapiens

<400> 383

Phe Leu Ile His Leu Glu Val Ile Trp Glu Leu Gly Cys Phe Ser Pro

```
<210> 384
<211> 32
<212> PRT
<213> Homo sapiens
```

```
<210> 385
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<210> 386
<211> 12
<212> PRT
<213> Homo sapiens
```

```
<210> 387
<211> 70
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids  
<220>
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```
<210> 390
<211> 21
<212> PRT
<213> Homo sapiens
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```
<210> 391
<211> 70
<212> PRT
<213> Homo sapiens
```

```

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```
<210> 392
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 392  
Glu Trp Glu Asp Asn Leu Pro Leu Glu Phe Ser Cys Pro Val Thr Lys  
1 5 10 15  
Leu Leu Ser Val Pro  
20

<210> 393  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 393  
 Pro Ser Trp Thr Pro Leu Asp Ala Gln Met Leu Leu Leu Phe Phe Pro  
           1                  5                  10                  15

Ser Leu Ser His His  
                           20

<210> 394  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 394  
 His Ser Ser Val Pro Trp Leu Phe Cys Ser Ser Pro Cys Gly Xaa Xaa  
           1                  5                  10                  15

Gly Leu Gly Phe Ile  
                           20

<210> 395  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 395  
 Ile Thr Glu Val Arg Lys Asp Asp Leu Lys Val Val Arg Ile  
           1                  5                  10

<210> 396  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 396  
 Gln Gly Leu Ser His Ile Phe Trp Met Asn Glu Gln Thr Leu Lys  
           1                  5                  10                  15

<210> 397

<400> 397

Asp Val Thr Gly Pro Gly Cys Cys Phe Ser Leu Thr Leu Thr Gly Phe  
20 25 30

<211> 233

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;221&gt; SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;221&gt; SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Ala Asp Leu Ile Val Leu Trp His His His Pro Leu Trp Pro Gln His  
1 5 10 15

Leu Ala Leu Pro Ser Ser Gly Ala Ser His Asp His Val Glu Leu Thr  
20 25 30

Val Tyr Pro Lys Thr Val Ala Ala Ser Trp Leu Leu Glu Leu Ser Arg  
35 40 45



```

<210> 399
<211> 176
<212> PRT
<213> Homo sapiens.

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 399

```

Ile Leu Trp Arg Gln Ala Pro Glu Ala Pro His Cys Ser Gln Asp Ser  
 1 5 10 15  
 Val Ser Ser Ser Pro Arg Leu Gln Glu Asp Leu Ala His Val Thr Gln  
 20 25 30  
 Val Thr Arg His Pro His Phe Arg Ser Leu Pro Ser Ala Trp Cys Ser  
 35 40 45  
 His Ser Ser Leu Leu Pro Val Ser Leu Pro Arg His Ala Leu Ala Thr  
 50 55 60  
 Lys Ser Pro Asn Met Xaa Xaa Ser Ser Pro Ile Leu His Leu Ile Gln  
 65 70 75 80  
 Phe Thr Gly Gln Ile Ser Ser Pro Leu Gly Gly Xaa Val Gln Pro Pro  
 85 90 95  
 Gly Gln Thr Ala Ser Pro Ile Cys Thr Gln Pro Met Ser His Pro Arg  
 100 105 110  
 Arg Gln Ala Ser Gln Gln Cys Glu Gln Gln Leu Trp Thr Gly Gln Thr  
 115 120 125  
 Ser His Leu Gln Ile Pro Cys Pro Ala Leu Asn Lys Glu Leu Pro Val  
 130 135 140  
 Val Asp Thr Gln Asp Lys Glu Leu Gln Met Ser Pro Glu Pro Met Trp  
 145 150 155 160  
 Gly Cys Gly Pro Ser Arg Leu Leu Pro Met Leu Leu Glu Ser Cys Ala  
 165 170 175

<210> 400  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 400  
 Met Leu Gln Gln His Leu Arg His Leu Ala Val Ala Thr Tyr Arg Cys  
 1 5 10 15

Arg Arg Arg Ser Pro Cys Lys Ala Pro Thr Val Glu Glu Ala Glu Gly  
 20 25 30

Gly Lys

<210> 401  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 401



Leu Pro

<400> 405

Ile Ser Trp Cys Pro Leu Leu Asn Tyr Arg  
20 25

<400> 406

Ile Gly'Leu Val Met Gln Pro Leu Gln Lys Pro His Thr  
20 25

<400> 407

<210> 408

<211> 152

<212> PRT

<213> Homo sapiens

<400> 408

Ala Ser Pro Pro Lys Ser Tyr Ile Arg Gly Lys Leu Gly Leu Glu .Glu  
20 25 30

Tyr Ala Val Phe Tyr Pro Pro Asn Gly Val Ile Pro Phe His Gly Phe  
35 40 45

<400> 411  
Leu Leu Arg Pro Ile Leu  
1 5



Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu Glu Thr Pro  
           35                          40                          45

Ile Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala  
           50                          55                          60

Phe Pro Leu Ala Asn Pro Pro Val Ala Pro His Pro Arg Glu Lys Ile  
           65                          70                          75                          80

Ile Thr Ile Glu Glu Thr His Glu Glu Leu Lys Lys Gln Tyr Ile Phe  
                           85                          90                          95

Gln Leu Ser Ser Leu Asn Pro Gln Glu Arg Ile Asp Tyr Cys His Leu  
                           100                          105                          110

Ile Glu Lys Leu Gly Thr Ser Ile Leu Leu Lys Ser Lys Met Ser His  
           115                          120                          125

Ile Ile Thr Ile Phe Gly Ser Gln Met  
           130                          135

<210> 416

<211> 21

<212> PRT

<213> Homo sapiens

<400> 416

Leu Ile Trp Ile Leu Ser His Cys Ser Ile Leu Leu Ser Ser Ala Val  
       1                          5                          10                          15

Cys Asp Pro Gly Asn  
                           20

<210> 417

<211> 21

<212> PRT

<213> Homo sapiens

<400> 417

Asn Ile Arg Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu  
       1                          5                          10                          15

Glu Thr Pro Ile Lys  
                           20

<210> 418

<211> 20

<212> PRT

<213> Homo sapiens

<400> 418

Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala Phe  
       1                          5                          10                          15

Pro Leu Ala Asn  
                           20

03618683 032804





Asn Leu His Gly Cys His Gly Lys Phe Gln Glu His Asn Leu Lys Val  
1 5 10 15

Asn Cys Met Thr Leu Phe Cys Val Ser Leu Thr Thr Thr His Ser Val  
20 25 30

Ser Leu Lys Val Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro  
35 40 45

Asp Thr Gln Asp Ser Asn Phe Ser Phe Pro Leu Asp Thr Thr Tyr Leu  
50 55 60

Val Ile Asn Phe Gly Ser Thr Tyr Ser Thr Lys  
65 70 75

<210> 424

<211> 30

<212> PRT

<213> Homo sapiens

<400> 424

Leu Phe Cys Val Ser Leu Thr Thr Thr His Ser Val Ser Leu Lys Val  
1 5 10 15

Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro Asp Thr  
20 25 30

<210> 425

<211> 11

<212> PRT

<213> Homo sapiens

<400> 425

Leu Leu Asn Pro Lys Ala Ser Leu His Ser Ala  
1 5 10

<210> 426

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 426

Asp Pro Arg Val Arg Ala Ser Val Gly Arg Cys Val Arg Ala Ala Gly  
1 5 10 15

Phe Xaa Leu Ala  
20

<210> 427

<211> 87

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 427  
Pro Tyr Arg Gly Gly Xaa Pro Tyr His Leu Pro Glu Ser Pro Pro Lys  
1 5 10 15

Arg Val Pro Trp Gln Glu His Ala Pro Arg Gln Val Cys Trp Arg Leu  
20 25 30

Cys Pro Ile Arg Xaa Gly Leu Glu Glu Lys Gly Gly Arg His Gln Ser  
35 40 45

Gln Glu Pro Gly Met Xaa Gly Ser Cys Trp Ala Phe Ser Xaa Thr Gly  
50 55 60

Asn Val Glu Gly Gln Trp Phe Leu Lys Gln Gly Pro Xaa Leu Pro Leu  
65 70 75 80



20					25					30					
Ala	Ala	Pro	Gly	Xaa	Arg	Ser	Arg	Pro	Ala	Pro	Pro	Ser	Ser	Arg	Arg
		35					40					45			
Ser	Gly	Pro	Gly	Gly	Gly	Val	Pro	Gly	Ala	Ala	Gly	Ala	Arg	Pro	Leu
	50					55					60				
Arg	Ala	Gly	Asp	Val	Gln	Pro	Arg	Pro	Gly	Ser	Arg	Xaa	Ala	Gly	Asp
65					70					75					80
Ala	Gly	Gly	Arg	Ala	Arg	Ser	Arg	Pro	Pro	Gly	Gly	Arg	Gly	Val	Ala
				85					90					95	
Val	Leu	Pro	Glu	Gly	Asp	Pro	Gly	Gly	Ala	Ser	Leu	Gln	Arg	Xaa	His
			100					105					110		
Gly	Val	Pro	Ala	Pro	Cys	Val	Xaa	Glu	Thr	Leu	Leu	Cys	Ser	Phe	Glu
			115					120					125		
Val	Leu	Asp	Glu	Leu	Gly	Lys	His	Met	Leu	Leu	Arg	Arg	Asp	Cys	Gly
			130					135					140		
Pro	Val	Asp	Thr	Lys	Val	Thr	Asp	Asp	Lys	Asn	Glu	Thr	Leu	Ser	Ser
145															160
Val	Leu	Pro	Leu	Leu	Asn	Lys	Glu	Pro	Leu	Pro	Gln	Asp	Phe	Ser	Val
				165					170					175	
Lys	Met	Ala	Ser	Ile	Phe	Lys	Glu	Phe	Val	Thr	Thr	Tyr	Asn	Arg	Thr
			180					185						190	
Tyr	Glu	Ser	Lys	Glu	Glu	Thr	Gln	Trp	Arg	Met	Ser	Val	Phe	Ser	Asn
			195					200					205		
Asn	Met	Met	Arg	Ala	Gln	Lys	Ile	Gln	Ala	Leu	Asp	Arg	Gly	Thr	Ala
			210				215						220		
Gln	Tyr	Gly	Val	Thr	Lys	Phe	Ser	Asp	Leu	Thr	Glu	Glu	Glu	Phe	His
225								230					235		240
Thr	Ile	Tyr	Leu	Asn	Pro	Leu	Leu	Arg	Glu	Tyr	His	Gly	Lys	Asn	Met
				245					250					255	
Arg	Leu	Asp	Lys	Ser	Ala	Gly	Asp	Ser	Ala	Pro	Ser	Glu	Trp	Asp	Trp
			260					265						270	
Xaa	Xaa	Lys	Gly	Xaa	Val	Thr	Lys	Val	Lys	Asn	Gln	Ala	Cys	Xaa	Ala
			275					280					285		
Pro	Ala	Gly	Leu	Ser	Gln	Ser	Leu	Val	Thr	Trp	Arg	Ala	Ser	Gly	Ser
			290				295							300	

&lt;210&gt; 429

&lt;211&gt; 85

<213> Homo sapiens

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Thr Leu Ala Ala Ala Ala Val Xaa Ala Gly Ala Ala Pro Gly Xaa Arg  
1 5 10 15

Ser Arg Pro Ala Pro Pro Ser Ser Arg Arg Ser Gly Pro Gly Gly Gly  
20 25 30

Val Pro Gly Ala Ala Gly Ala Arg Pro Leu Arg Ala Gly Asp Val Gln  
35 40 45

Pro Arg Pro Gly Ser Arg Xaa Ala Gly Asp Ala Gly Gly Arg Ala Arg  
50 55 60

Ser Arg Pro Pro Gly Gly Arg Gly Val Ala Val Leu Pro Glu Gly Asp  
65 70 75 80

Pro Gly Gly Ala Ser  
85

<211> 119

<213> Homo sapiens

Ser Phe Glu Val Leu Asp Glu Leu Gly Lys His Met Leu Leu Arg Arg  
1 5 10 15

Asp	Cys	Gly	Pro	Val	Asp	Thr	Lys	Val	Thr	Asp	Asp	Lys	Asn	Glu	Thr
			20					25					30		

Leu Ser Ser Val Leu Pro Leu Leu Asn Lys Glu Pro Leu Pro Gln Asp  
35 40 45

Phe Ser Val Lys Met Ala Ser Ile Phe Lys Glu Phe Val Thr Thr Tyr  
50 55 60

Asn Arg Thr Tyr Glu Ser Lys Glu Glu Thr Gln Trp Arg Met Ser Val  
65 70 75 80

Phe Ser Asn Asn Met Met Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg  
85 90 95

Gly Thr Ala Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu  
100 105 110

Glu Phe His Thr Ile Tyr Leu  
115

<210> 431

<211> 11

<212> PRT

<213> Homo sapiens

<400> 431

Thr Ser His Pro Leu Gly Gly Gly Val Glu Arg  
1 5 10

<210> 432

<211> 9

<212> PRT

<213> Homo sapiens

<400> 432

Ala Cys Cys Cys Leu Glu Trp Ala Gly  
1 5

<210> 433

<211> 43

<212> PRT

<213> Homo sapiens

<400> 433

Ser Ala Glu Gln Lys Thr Arg Leu His Leu Leu Tyr Lys Thr Glu Leu  
1 5 10 15

Tyr Phe Ser Phe Ile Ile Ser Arg Val Ala Val Leu Leu Val Leu Ile  
20 25 30

His Trp Arg Gly Gly Ile Arg Thr Asp Val Ser  
35 40

<210> 434

<211> 23

<212> PRT

<213> Homo sapiens

<400> 434

Thr Leu Gln Asn Ile Tyr Pro Leu Leu Ile Asp Ala Ser Leu Tyr Ile  
1 5 10 15

Cys Val Tyr Ile His Thr Tyr  
20

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<400> 435

Arg Ala Gly Ile Gly Asn Thr Phe Gln Gly Gly Ala Asn Cys Ile  
20 25 30

<211> 99

<212> PRT

<213> Homo sapiens

<400> 436

Glu Arg Val Ser Gly Thr Arg Phe Arg Glu Val Pro Thr Ala Ser Cys  
20 25 30

Ala Ala Ala Ala Leu Leu Ser Leu Pro Pro Arg Ala Arg Leu Ala Leu  
50 . 55 60

Pro Arg Leu Pro Arg Leu Pro Ser Gln Glu Asn Leu Arg Asn Pro Lys  
65 70 75 80

Gly Pro Gln Gly Asn Phe Gln Ala Pro Gly Ala Phe Val Leu Ser Ser  
85 90 95

Ser Val Ala

<210> 437

<211> 216

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$  (114)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (155)











&lt;400&gt; 447

His Glu Ala Arg Gln Gly Val Ser Arg Gly Val Lys Ala Ala Met Asn  
 1 5 10 15

Arg Val Leu Cys Ala Pro Ala Ala Gly Ala Val Arg Ala Leu Arg Leu  
 20 25 30

Ile Gly Trp Ala Ser Arg Ser Leu His Pro Leu Pro Gly Ser Arg Asp  
 35 40 45

Arg Ala His Pro Ala Ala Glu Glu Glu Asp Asp Pro Asp Arg Pro Ile  
 50 55 60

Glu Phe Ser Ser Ser Lys Ala Asn Pro His Arg Trp Ser Val Gly His  
 65 70 75 80

Thr Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu  
 85 90 95

Ser Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu  
 100 105 110

Ser Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu  
 115 120 125

Pro Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala  
 130 135 140

Arg Thr  
 145

&lt;210&gt; 448

&lt;211&gt; 249

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (221)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 448

Met Trp Val Xaa Gly Glu Glu Val Leu Gly Ser His Ala Ala Ser Pro  
 1 5 10 15

Ala Phe Leu His Arg Cys Phe Ser Glu Glu Ser Cys Val Ser Ile Pro  
 20 25 30

Glu Val Glu Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile  
 35 40 45

Leu Leu Ser Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu

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50					55					60					
Gly	Thr	Asn	Gly	Val	Pro	Leu	Phe	Pro	Asp	Leu	Gln	Ile	Thr	Cys	Ser
65						70					75				80
Ile	Ser	His	Gln	Val	Glu	Ala	Lys	Lys	Asp	Glu	Ser	Trp	Gln	Gly	Thr
			85						90					95	
Val	Thr	Asp	Thr	Arg	Met	Ser	Asp	Glu	Ile	Val	His	Asn	Leu	Asp	Gly
			100					105					110		
Cys	Glu	Ile	Ser	Leu	Val	Gly	Asp	Asp	Leu	Asp	Pro	Glu	Arg	Glu	Ser
		115					120					125			
Leu	Leu	Leu	Asp	Thr	Thr	Ser	Leu	Gln	Gln	Arg	Gly	Leu	Glu	Leu	Thr
	130					135					140				
Asn	Thr	Ser	Ala	Tyr	Leu	Thr	Ile	Ala	Gly	Val	Glu	Ser	Ile	Thr	Val
145					150					155					160
Tyr	Glu	Glu	Ile	Leu	Arg	Gln	Ala	Arg	Tyr	Arg	Leu	Arg	His	Gly	Ala
			165						170					175	
Ala	Leu	Tyr	Thr	Arg	Lys	Phe	Arg	Leu	Ser	Cys	Ser	Glu	Met	Asn	Gly
			180					185					190		
Arg	Tyr	Ser	Ser	Asn	Glu	Phe	Ile	Val	Glu	Val	Asn	Val	Leu	His	Ser
		195					200					205			
Met	Asn	Arg	Val	Ala	His	Pro	Ser	His	Val	Leu	Ser	Xaa	Gln	Gln	Phe
	210					215					220				
Leu	His	Arg	Gly	His	Gln	Pro	Pro	Pro	Glu	Met	Ala	Gly	His	Ser	Leu
225					230					235					240
Ala	Ser	Ser	His	Arg	Asn	Ser	Ser	Thr							
			245												

<210> 449  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 449

Leu	Gly	Ser	His	Ala	Ala	Ser	Pro	Ala	Phe	Leu	His	Arg	Cys	Phe	Ser
1				5					10					15	

Glu	Glu	Ser	Cys	Val	Ser	Ile
			20			

<210> 450  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 450

Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile Leu Leu Ser

1 5 10 15

Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu  
20 25

<210> 451  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 451  
Ile Thr Cys Ser Ile Ser His Gln Val Glu Ala Lys Lys Asp Glu Ser  
1 5 10 15

Trp Gln Gly Thr Val Thr Asp Thr Arg Met  
20 25

<210> 452  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 452  
Asn Leu Asp Gly Cys Glu Ile Ser Leu Val Gly Asp Asp Leu Asp Pro  
1 5 10 15

Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr Ser Leu Gln  
20 25

<210> 453  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 453  
Ser Ala Tyr Leu Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu  
1 5 10 15

Glu Ile Leu Arg Gln Ala Arg  
20

<210> 454  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 454  
Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu Phe  
1 5 10 15

Ile Val Glu Val Asn Val Leu His Ser Met  
20 25

<210> 455



Leu Thr Glu Val Gly Leu  
20



<210> 460  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 460  
 Phe Gly Tyr Asn Cys Cys Lys Val Gly Ala Ser Asn Tyr Leu Gln Gln  
 1 5 10 15

Val Val Ser Thr Phe Ser Asp  
 20

<210> 461  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 461  
 Thr Ser Glu Lys Asn Pro Leu Asp Ile Asp Ala Ser Gly Val Val Gly  
 1 5 10 15

Leu Ser Phe Ser  
 20

<210> 462  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 462  
 Asn Glu Asp Val Ser Asp Glu Lys Thr Ala Glu Ala Ala Met Gln Arg  
 1 5 10 15

Leu Lys Ala Ala Asn Ile Pro Glu His Asn  
 20 25

<210> 463  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Tyr Tyr Arg Ala Lys Gly Asn Val Glu Ala Asp Ala Phe Arg Lys Phe  
 1 5 10 15

Phe Pro Ser Val Pro Leu Phe Gly Phe  
 20 25

<210> 464  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile  
115 120 125

Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu  
 130 135 140  
 Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly  
 145 150 155 160  
 Leu Leu Glu Leu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg  
 165 170 175  
 Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln  
 180 185 190  
 Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln  
 195 200 205  
 Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg  
 210 215 220  
 Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His  
 225 230 235 240  
 Asn Pro Thr Pro Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala  
 245 250 255  
 Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu  
 260 265 270  
 Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu  
 275 280 285  
 Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met  
 290 295 300  
 Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg  
 305 310 315 320  
 Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp  
 325 330 335  
 Phe Asp Leu Tyr Thr  
 340

&lt;210&gt; 467

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

Thr Phe Gln Gly Val Gly Asp Glu Glu Asp Glu Asp Glu Ile Ile Val  
 1 5 10 15

Pro Lys Lys Lys Leu Val Asp Pro  
 20

&lt;210&gt; 468

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp Ser Asp Glu Glu  
 1 5 10 15

Glu Asp Asp Asp Asp Gly Gly Ser Ser Lys Tyr  
 20 25

&lt;210&gt; 469

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

Glu Ala Ala Thr Leu Pro Ser Glu Gly Gly Val Arg Ile Thr Pro Phe  
 1 5 10 15

Asn Leu Gln Glu Glu Met Glu Glu Gly  
 20 25

&lt;210&gt; 470

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 470

Phe Leu Asn Arg Asp Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile  
 1 5 10 15

Asp Trp Val Lys Ile Arg Glu Arg Pro Pro Gly Gln Arg  
 20 25

&lt;210&gt; 471

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly Leu  
 1 5 10 15

Leu Glu Leu Leu Leu Pro Arg Glu Thr Val  
 20 25

&lt;210&gt; 472

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 472

Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln Pro Ser Ser Pro  
 1 5 10 15

Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln  
20 25

<210> 473

<211> 24

<212> PRT

<213> Homo sapiens

<400> 473

Gln Glu Thr Arg Glu Arg Leu Ala Met Arg Leu Lys Gly Leu Gly Cys  
1 5 10 15

Gln Thr Leu Gly Pro His Asn Pro  
20

<210> 474

<211> 28

<212> PRT

<213> Homo sapiens

<400> 474

Asp Met Phe Ala Glu Glu Leu Ala Glu Glu Glu Leu Glu Thr Pro Thr  
1 5 10 15

Pro Thr Gln Arg Gly Glu Ala Glu Ser Arg Gly Asp  
20 25

<210> 475

<211> 30

<212> PRT

<213> Homo sapiens

<400> 475

Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met Gln Thr Trp Val Ser  
1 5 10 15

Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg Lys Leu Asp  
20 25 30

<210> 476

<211> 14

<212> PRT

<213> Homo sapiens

<400> 476

Pro His Ser Ser Arg Val Ser Phe Leu Gln Ser Leu Ser Phe  
1 5 10

<210> 477

<211> 141

<212> PRT

<213> Homo sapiens

<400> 477

Lys Thr Leu Lys Lys

130

&lt;210&gt; 479

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Val	Cys	Leu	Ser	Pro	His	Ser	Arg	Phe	Trp	Glu	Cys	Cys	Ser	Phe	Tyr
1				5					10					15	

Leu	Gln	Gly	Leu	Pro	Ala	Leu	Arg	Cys
			20				25	

&lt;210&gt; 480

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

Gln	Phe	Ser	Arg	Ala	Leu	Trp	Val	Ser	Thr	Cys	Leu	Val	Leu	Ala	Ile
1				5					10					15	

Thr	Pro	Gly	Lys	Trp	Leu	Leu	Pro	Glu	Asp	Arg
			20						25	

&lt;210&gt; 481

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 481

Ser	Leu	Ser	Leu	Leu	Arg	Ala	Gln	Thr	Gly	Thr	Asp	Cys	Ala	Val	Ser
1				5					10					15	

Pro	Gly	Leu	Ala	Gly	Pro	Cys	His	Gln	Arg	Gly
			20						25	

&lt;210&gt; 482

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 482

Ser	Gly	Arg	Ser	His	Phe	Pro	Gly	Val	Met	Ala	Lys	Thr	Lys	His	Val
1				5					10					15	

Asp	Thr	His	Asn	Ala	Arg	Glu	Asn	Trp	Ile	Arg	Thr
			20						25		

&lt;210&gt; 483

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens







35	40	45
Val Glu Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro		
50	55	60
Gly Ser Ser His Ser Glu Gly Gly Pro Glu Ala Arg Trp Pro Leu Ile		
65	70	75
Ala Pro Met Tyr Thr Val Thr Gln Trp Phe Gln Arg Pro Asn Ser Gly		
	85	90
Arg Gly Pro Gln Pro Pro Pro Gln Xaa Arg Gly Glu Ile Gly Lys Arg		
	100	105
Gly Tyr Gly Ala Pro Glu Arg Lys Leu Arg Trp Pro Leu Leu Xaa Trp		
	115	120
Glu Arg Xaa Pro Pro Pro Pro Pro Thr Pro Gly Arg His Ser Glu Thr		
	130	135
Ser Ser Ser Ala Ile Ser Phe Leu Phe His Ser Gln Arg Thr Gly Trp		
	145	150
Gly Ile Ser Ser Ser Ala Asn Gly Ala Ser Gln Gly Leu Leu Trp Gly		
	165	170
Ala Ala Arg Xaa Leu Pro Ile Pro Gly Arg Asp Leu Gly Thr His Leu		
	180	185
Trp Asp Leu Val Ala Ser Phe Pro Phe Phe Cys Pro Ser Gly		
	195	200

<210> 487  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 487  
 Pro Glu Gly Gln Lys Lys Gly Lys Glu Ala Thr Arg Ser His Arg Trp  
 1 5 10 15

Val Pro Arg Ser Leu Pro Gly Met  
 20

<210> 488  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 488  
 Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro Gly Ser  
 1 5 10 15

Ser His Ser Glu Gly Gly Pro Glu Ala Arg  
 20 25

00010000 00000000

<210> 489  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 489  
 His Ser Gln Arg Thr Gly Trp Gly Ile Ser Ser Ser Ala Asn Gly Ala  
   1                  5                  10                  15  
 Ser Gln Gly Leu Leu Trp Gly Ala  
                   20

<210> 490  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 490  
 Asp Ser Leu Thr Ile Lys Ser Gly Ser Gln Pro Gln Tyr Ser Pro Ala  
   1                  5                  10                  15  
 Ile Thr Leu Trp  
                   20

<210> 491  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 491  
 Phe Ile Met Lys Leu Leu Tyr Gln Leu Leu Met Leu Thr Thr Ser Ser  
   1                  5                  10                  15  
 Ser Tyr Ser Leu Ile Thr His Leu Cys Tyr Ser Ile Phe Leu Cys Ser  
                   20                  25                  30  
 Phe Tyr Phe His Phe Pro Cys Asn Val Ser Leu Phe Val Leu Ile Ser  
           35                  40                  45  
 Glu Glu Phe Ile Tyr Asp  
           50

<210> 492  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 492  
 Leu Met Leu Thr Thr Ser Ser Ser Tyr Ser Leu Ile Thr His Leu Cys  
   1                  5                  10                  15  
 Tyr Ser Ile Phe Leu  
                   20

<210> 493



<212> PRT  
 <213> Homo sapiens

<400> 497  
 Gly Ile Ser Glu Arg Lys Pro  
     1                    5

<210> 498  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 498  
 Gln Ser Pro Ala Val Ser Tyr Thr Val Thr Ser Gln Val Pro Trp Gly  
     1                    5                    10                    15

Leu Gly Leu Leu Ala Gly Glu Lys Arg  
                     20                    25

<210> 499  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 499  
 Leu Pro Ser His Pro Leu Arg Pro Leu Thr Phe Ser Ser Ala Met Cys  
     1                    5                    10                    15

Met His Leu Pro Pro Pro Leu Cys Arg Arg Ala Ala Leu Ser Ala Pro  
                     20                    25                    30

Phe Ala Thr Gln His Arg Pro Trp Ser Val Ala Ala Ala Cys Leu Pro  
                     35                    40                    45

Arg Ile His Gln Asn Pro Leu Asp Ala Glu Tyr Pro Ser Gly Cys Cys  
     50                    55                    60

Arg Met Ser Phe Leu Pro Ala Ala Cys Ser Asn Ile Tyr Ser Gln Glu  
     65                    70                    75                    80

Cys His Tyr Thr Leu Met Ser His Ser Glu Ala Ser Thr Leu Gln Xaa  
                     85                    90                    95

Ala Gln Leu Leu  
                     100

<210> 500  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens



<213> Homo sapiens

<400> 504

Thr His Pro Ser His Pro Ser Ile Val Ile Gln Ser Thr Val Ser Leu  
1 5 10 15

Cys Leu Thr Ala Ser Ser Arg Arg Lys Lys Ser Asp Cys Leu Ser Leu  
20 25 30

Cys Gln Val Ser Cys Ser Gln Arg Pro Gly Ser His Lys Thr Asn Val  
35 40 45

Ala Trp Gly Phe Leu Met Ser Arg Val His Phe Ser Val Arg Trp Val  
50 55 60

Ser Gly Gly Arg Gly Ile Thr Gly Ala Ile Cys Lys Glu Ser Ser Leu  
65 70 75 80

Pro Cys Lys Glu Ile Gln Gly Lys Ala Cys Tyr Phe Cys His His Pro  
85 90 95

Ala Gln Gln Ser Thr Pro Phe Ser His Ile  
100 105

<210> 505

<211> 27

<212> PRT

<213> Homo sapiens

<400> 505

Val Ile Gln Ser Thr Val Ser Leu Cys Leu Thr Ala Ser Ser Arg Arg  
1 5 10 15

Lys Lys Ser Asp Cys Leu Ser Leu Cys Gln Val  
20 25

<210> 506

<211> 26

<212> PRT

<213> Homo sapiens

<400> 506

Ile Cys Lys Glu Ser Ser Leu Pro Cys Lys Glu Ile Gln Gly Lys Ala  
1 5 10 15

Cys Tyr Phe Cys His His Pro Ala Gln Gln  
20 25

<210> 507

<211> 11

<212> PRT

<213> Homo sapiens

<400> 507

Pro Thr Arg Pro Pro Thr Arg Pro Ala Gly Lys  
1 5 10

<210> 508  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 508  
 Ser Ile Thr Lys Tyr Cys Gln Gly Cys Arg Lys Ile Gly Ala Leu Leu  
 1 5 10 15

Pro Trp Trp Glu Cys Asn Met Val Pro Asp Thr Thr Ser Ile Leu Lys  
 2 20 25 30

Leu Ile Cys  
 35

<210> 509  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 509  
 Ser Leu Gln Val Leu Arg Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu  
 1 5 10 15

Arg Ser Arg Phe Cys Lys Asp Val Leu Pro Lys Leu Ala Gly Ser Leu  
 20 25 30

Val Thr Gln Ala Pro Ile Ser Ala Arg Ala Gly Pro Val Tyr Ser His  
 35 40 45

Thr Leu Ala Phe Lys Leu Gln Leu Ala Val Leu Gln Gly Leu Gly Pro  
 50 55 60

Leu Cys Glu Arg Leu Asp Leu Gly Glu Gly Asp Leu Asn Lys Val Ala  
 65 70 75 80

Asp Ala Cys Leu Ile Tyr Leu Ser Val Lys Gln Pro Val Lys Leu Gln  
 85 90 95

Glu Ala Ala Arg Ser Val Phe Leu His Leu Met Lys Val Asp Pro Asp  
 100 105 110

Ser Thr Trp Phe Leu Leu Asn Glu Leu Tyr Cys Pro Val Gln Phe Thr  
 115 120 125

Pro Pro His Pro Ser Leu His Pro Val Gln Leu Xaa Gly Ala Ser Gly



130 135 140

Gln Gln Asn Pro Xaa His Asp Gln Arg Ala Pro Ala Ala Gln Gly Ala  
145 150 155 160

Ala Val Thr Leu Leu Pro His His Arg Gly His Arg Ser Leu Pro Tyr  
165 170 175

Cys Gln Pro Glu Ala Gly Leu Thr Pro Pro Arg Pro  
180 185

&lt;210&gt; 510

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 510

Gly Ala Asp Gly Asn Val Ser Asp Phe Asp Asn Glu Glu Glu Glu Gln  
1 5 10 15

Ser Val Pro Pro Lys Val Asp Glu Asn Asp Thr Arg Pro Asp Val Glu  
20 25 30

Pro Pro Leu Pro Leu Gln Ile Gln Ile Ala Met Asp Val Met Glu Arg  
35 40 45

Cys Ile His Leu Leu Ser Asp Lys Asn Leu Gln Ile Arg Leu Lys Val  
50 55 60

Leu Asp Val Leu Asp Leu Cys Val Val Val Leu Gln Ser His Lys Asn  
65 70 75 80

Gln Leu Leu Pro Leu Ala His Gln Ala Trp Pro Ser Leu Val His Arg  
85 90 95

Leu Thr Arg Asp Ala Pro Leu Ala Val Leu Arg Ala Phe Lys Phe Tyr  
100 105 110

Val Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala  
115 120 125

Lys Met Ser Cys Gln Ser Trp Leu Ala Pro  
130 135

&lt;210&gt; 511

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 511

Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu Arg Ser Arg Phe Cys Lys  
1 5 10 15

Asp Val Leu Pro Lys Leu Ala Gly Ser Leu  
20 25

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T082020.28801850



<400> 516

<210> 517

<211> 21

<212> PRT

<213> Homo sapiens

<400> 517

Ser Gly Ile Ser Phe  
20

<210> 518

<211> 20

<212> PRT

<213> Homo sapiens

<400> 518

Asn Leu Lys Asn  
20

<210> 519

<211> 143

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (139)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

 $\langle 222 \rangle$  (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

Val Phe Val Phe Pro Thr Glu Leu Ile Phe Tyr Ala Asp Asp Gln Ser  
20 25 30

Thr His Lys Gln Val Leu Thr Leu Tyr Asn Pro Tyr Glu Phe Ala Leu  
35 40 45

Lys Phe Lys Val Leu Cys Thr Thr Pro Asn Lys Tyr Val Val Val Asp  
 50 55 60  
 Ala Ala Gly Ala Val Lys Pro Gln Cys Cys Val Asp Ile Val Ile Arg  
 65 70 75 80  
 His Arg Asp Val Arg Ser Cys His Tyr Gly Val Ile Asp Lys Phe Arg  
 85 90 95  
 Leu Gln Val Ser Glu Gln Ser Gln Arg Lys Ala Leu Gly Lys Lys Arg  
 100 105 110  
 Gly Cys Cys Tyr Ser Ser Pro Ile Ser Lys Arg Thr Thr Lys Gly Arg  
 115 120 125  
 Arg Gly Lys Lys Ile Lys Gly Thr Phe Asn Xaa Xaa Phe Ile Phe  
 130 135 140

<210> 520

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Met Asn Ser Phe Ser Val Ile Ala Ser Ile Val Val Leu Leu Pro Phe  
 1 5 10 15

Pro Gly Leu Ser Val Ser Ala Cys Leu Pro Ser His Ser His Gln Cys  
 20 25 30

Lys Thr Phe Ile Leu Leu Phe Leu Pro Ser Ser Glu Lys Thr Leu Xaa  
 35 40 45

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Trp His Arg Glu Lys Ser Ala Phe Trp Ile Phe Glu Thr  
20 25

<210> 530  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 530  
 Ile Cys Leu Asp Ser Cys Ser Gln Val Ser Val Thr Ser Leu Trp Ser  
 1 5 10 15

Phe Leu Arg Val His Ser Leu Val Gln Thr Leu Trp  
 20 25

<210> 531  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 531  
 His Tyr Cys Cys Asp Phe Gly Thr Ser Leu Leu Gly Phe Tyr Val Pro  
 1 5 10 15

Phe His Tyr Tyr Val His Met Val Asn Ile Ile Leu Thr Thr Ile Asp  
 20 25 30

Phe Tyr His Tyr Lys Phe Cys Cys Ser Gln Asn Ala Asn Lys His Cys  
 35 40 45

Phe Lys His Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn  
 50 55 60

Lys Glu Asn Leu Arg Phe Lys Asn Ile Phe Lys  
 65 70 75

<210> 532  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 532  
 Thr Ser Leu Leu Gly Phe Tyr Val Pro Phe His Tyr Tyr Val His Met  
 1 5 10 15

Val Asn Ile Ile Leu Thr Thr Ile Asp Phe Tyr  
 20 25

<210> 533  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 533  
 Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn Lys Glu Asn  
 1 5 10 15

Leu Arg Phe Lys Asn Ile





125

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<210> 539
<211> 25
<212> PRT
<213> Homo sapiens

<400> 539
Ala Leu Tyr Ser Ile Gln Trp Ala Leu Leu Ala Asn Ser Leu Tyr Phe
 1             5             10             15
Gln Val Pro Ser Pro Leu Ser Met Leu
          20          25

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<210> 540  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Asp Arg Ile Leu Leu Phe Tyr Ser Arg Asp Gly Gln Thr Thr Ser Lys  
           1                  5                  10                  15  
 Gly Pro Asn Pro Ala Cys Cys Leu Phe Leu Leu Lys Lys Phe Tyr Trp  
                   20                  25                  30  
 Asn Thr Ala  
           35

<210> 541  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Asp Gly Gln Thr Thr Ser Lys Gly Pro Asn Pro Ala Cys Cys Leu Phe  
           1                  5                  10                  15  
 Leu Leu Lys Lys Phe  
                   20

<210> 542  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Asp Pro Arg Val Arg Arg Thr Leu Asp Leu Gly Ile Thr Leu Tyr Leu  
           1                  5                  10                  15  
 Phe Leu Tyr Ile Phe Leu Ser Leu  
                   20

<210> 543  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Pro Ala Leu Gly Glu Cys Cys Leu Asp Ala Phe Leu Phe Leu Leu Gly  
           1                  5                  10                  15  
 Lys Gln Leu Lys Lys Ser Gly Glu Lys Pro Leu Leu Gly Gly Ser Leu  
                   20                  25                  30  
 Met Glu Tyr Ala Ile Leu Ser Ala Ile Ala Ala Met Asn Glu Pro Lys  
           35                  40                  45

Thr Cys Ser Thr Thr Ala Leu Lys Lys Tyr Val Leu Glu Asn His Pro  
 50 55 60  
 Gly Thr Asn Ser Asn Tyr Gln Met His Leu Leu Lys Lys Thr Leu Gln  
 65 70 75 80  
 Lys Cys Glu Lys Asn Gly Trp Met Glu Gln Ile Ser Gly Lys Gly Phe  
 85 90 95  
 Ser Gly Thr Phe Gln Leu Cys Phe Pro Tyr Tyr Pro Ser Pro Gly Val  
 100 105 110  
 Leu Phe Pro Lys Lys Glu Pro Asp Asp Ser Arg Asp Glu Asp Glu Asp  
 115 120 125  
 Glu Asp Glu Ser Ser Glu Glu Asp Ser Glu Asp Glu Glu Pro Pro Pro  
 130 135 140  
 Lys Arg Arg Leu Gln Lys Lys Thr Pro Ala Lys Ser Pro Gly Lys Ala  
 145 150 155 160  
 Ala Ser Val Lys Gln Arg Gly Ser Lys Pro Ala Pro Lys Val Ser Ala  
 165 170 175  
 Ala Gln Arg Gly Lys Ala Arg Pro Leu Pro Lys Lys Ala Pro Pro Lys  
 180 185 190  
 Ala Lys Thr Pro Ala Lys Lys Thr Arg Pro Ser Ser Thr Val Ile Lys  
 195 200 205  
 Lys Pro Ser Gly Gly Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys  
 210 215 220  
 Glu Val Lys Leu Pro Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe  
 225 230 235 240  
 Arg Val Lys Lys

&lt;210&gt; 544

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

Asp Phe Glu Phe His His Asp Thr Leu Phe Ser Tyr Lys Ile Tyr Phe  
 1 5 10 15

Phe Thr Leu Lys Asp Phe Phe Met Val Asp Leu Pro Leu Pro Gly Asn  
 20 25 30

Phe Thr Ser Phe Leu Ala Leu Val Ala Gly Phe Phe Glu Glu Pro Pro  
 35 40 45

Leu Gly Phe Leu Met Thr Val Asp Glu Gly Leu Val Phe Leu Ala Gly  
 50 55 60

Val Leu Ala Leu Gly Gly Ala Phe Leu Gly Lys Gly Leu Ala Phe Pro

$$\begin{array}{ll} \langle 210 \rangle & 548 \\ \langle 211 \rangle & 28 \end{array}$$

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 548

Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys Glu Val Lys Leu Pro  
 1 5 10 15

Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe Arg  
 20 25

&lt;210&gt; 549

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 549

Val Asp Glu Gly Leu Val Phe Leu Ala Gly Val Leu Ala Leu Gly Gly  
 1 5 10 15

Ala Phe Leu Gly Lys Gly Leu  
 20

&lt;210&gt; 550

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 550

Gly Leu Asp Pro Leu Cys Phe Thr Asp Ala Ala Phe Pro Gly Asp Leu  
 1 5 10 15

Ala Gly Val Phe Phe Cys Asn Leu Leu  
 20 25

&lt;210&gt; 551

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 551

Thr Met Leu Phe Tyr Leu Ser Ser Gln Pro Asp Trp Gln Leu Asp Phe  
 1 5 10 15

Phe Arg Val Ser Phe Asn Gly Pro Val Phe Phe Ile Ile Ile Phe Asn  
 20 25 30

Asp Arg Ala Gly Phe Arg Met Gln Ala Leu Val Ser Gln Ala Ala Cys  
 35 40 45

Arg Arg Ser Arg Tyr Lys Leu Ser Val Val Tyr  
 50 55

&lt;210&gt; 552

&lt;211&gt; 23

&lt;212&gt; PRT



145		150		155		160									
Pro	Glu	Asp	Leu	Thr	Glu	Lys	Leu	Val	Thr	Tyr	Gln	Arg	Ser	Val	Leu
			165						170					175	
Ala	Leu	Arg	Arg	Ala	His	Asp	Tyr	Glu	Val	Ala	Xaa	Met	Gly	Asn	Ala
			180					185					190		
Asp	Glu	Thr	Pro	Ile	Cys	Leu	Glu	Val	Pro	Ser	Arg	Val	Thr	Val	Asp
		195					200					205			
Asn	Gln	Gly	Glu	Lys	Pro	Val	Leu	Val	Lys	Thr	Pro	Gly	Arg	Glu	Lys
	210					215					220				
Leu	Lys	Ile	Thr	Ala	Met	Leu	Gly	Val	Leu	Ala	Asp	Gly	Arg	Lys	Leu
225					230					235					240
Pro	Pro	Tyr	Ile	Ile	Leu	Arg	Gly	Thr	Tyr	Ile	Pro	Pro	Gly	Lys	Phe
			245						250					255	
Pro	Ser	Gly	Met	Glu	Ile	Arg	Cys	His	Arg	Tyr	Gly	Trp	Met	Thr	Glu
			260					265					270		
Asp	Leu	Met	Gln	Asp	Trp	Leu	Glu	Val	Val	Trp	Arg	Arg	Arg	Thr	Gly
		275					280					285			
Ala	Val	Pro	Lys	Gln	Arg	Gly	Met	Leu	Ile	Leu	Asn	Gly	Phe	Arg	Gly
	290					295					300				
His	Ala	Thr	Asp	Ser	Val	Lys	Asn	Ser	Met	Glu	Ser	Met	Asn	Thr	Asp
305					310					315					320
Met	Val	Ile	Xaa	Pro	Gly	Gly	Leu	Thr	Ser	Gln	Leu	Gln	Val	Leu	Asp
				325					330					335	
Val	Val	Val	Tyr	Lys	Pro	Leu	Asn	Asp	Ser	Val	Arg	Ala	Gln	Tyr	Ser
			340					345					350		
Asn	Trp	Leu	Leu	Ala	Gly	Asn	Leu	Ala	Leu	Ser	Pro	Thr	Gly	Asn	Ala
		355					360					365			
Lys	Lys	Pro	Pro	Leu	Gly	Leu	Phe	Leu	Glu	Trp	Val	Met	Val	Ala	Trp
	370					375					380				
Asn	Ser	Ile	Ser	Ser	Glu	Ser	Ile	Val	Gln	Gly	Phe	Lys	Lys	Cys	His
385					390					395					400
Ile	Ser	Ser	Asn	Leu	Glu	Glu	Glu	Asp	Asp	Val	Leu	Trp	Glu	Ile	Glu
			405						410					415	
Ser	Glu	Leu	Pro	Gly	Gly	Gly	Glu	Pro	Pro	Lys	Asp	Cys	Asp	Thr	Glu
			420					425					430		
Ser	Met	Ala	Glu	Ser	Asn										
		435													

&lt;210&gt; 554

&lt;211&gt; 30

FOI b7c b7d b7e b7f b7g b7h b7i b7j b7k b7l b7m b7n b7o b7p b7q b7r b7s b7t b7u b7v b7w b7x b7y b7z



<213> Homo sapiens

Gly Gln Glu Glu Trp Thr Asn Ser Arg His Lys Ala Pro Ser Ala Arg  
1 5 10 15

Thr Ala Lys Gly Val Tyr Arg Asp Gln Pro Tyr Gly Arg Tyr  
20 25 30

<211> 26

<213> Homo sapiens

Ile Leu Ala Ile Ser Leu Ala Gln Asn Phe Thr Pro Ser Trp Lys Gly  
1 5 10 15

Gly Glu Arg Glu Cys Ser Asp Leu Tyr Leu  
20 25

<211> 11

<213> Homo sapiens

Leu Gln Thr Tyr Leu Ser Pro Tyr Lys Leu Phe  
1 5 10

<211> 22

<213> Homo sapiens

Leu Ala Ala Gly Ile Leu Asn Ser Ser Leu Pro Ala Leu Tyr His Ser  
1 5 10 15

Val Glu Glu Ile Ser Gln  
20

<211> 45

<213> Homo sapiens

Xaa Tyr Arg Met Asn Thr Lys Phe Leu Glu Ser Tyr Lys Met Ser Thr  
1 5 10 15

Thr Leu Ser Arg Arg His Gln Asn Val Ser Leu Cys Lys Asp Met Lys  
20 25 30

Thr Pro Ala Gly Thr Asp Thr Lys Ile Ala Phe Leu Glu  
                   35                                  40                                  45

<210> 559

<211> 21

<212> PRT

<213> Homo sapiens

<400> 559

Ser Tyr Lys Met Ser Thr Thr Leu Ser Arg Arg His Gln Asn Val Ser  
       1                                  5                                  10                                  15

Leu Cys Lys Asp Met  
                                   20

<210> 560

<211> 57

<212> PRT

<213> Homo sapiens

<400> 560

Ile Cys Ile Glu Ser Leu Met Leu His Tyr Ile Ala Leu Val Phe Glu  
       1                                  5                                  10                                  15

Met Ala Phe Met Phe Pro Leu Val Tyr His Glu Met Gly Ser Asp Ser  
                                   20                                  25                                  30

Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro Ser Met Met  
                                   35                                  40                                  45

Arg Phe Phe Phe Ser Phe Pro Phe Leu  
       50                                  55

<210> 561

<211> 21

<212> PRT

<213> Homo sapiens

<400> 561

Tyr Ile Ala Leu Val Phe Glu Met Ala Phe Met Phe Pro Leu Val Tyr  
       1                                  5                                  10                                  15

His Glu Met Gly Ser  
                                   20

<210> 562

<211> 21

<212> PRT

<213> Homo sapiens

<400> 562

Ser Asp Ser Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro  
       1                                  5                                  10                                  15

Ser Met Met Arg Phe

20

&lt;210&gt; 563

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

Gly Gly Val Ser Val Gln Asp Gly Ser Leu Arg Glu Glu Thr Asp Val  
 1 5 10 15

Gly Glu Gly Gly Arg Pro Arg Gly Gly Gln Ser Glu Gly Ala Arg Val  
 20 25 30

Thr Arg Arg Pro Ser Pro Pro Asp Ser Asn Ala Ser Ala Phe Asp Leu  
 35 40 45

Asp Leu Asp Phe Ser Pro Phe Cys Ile Trp Cys Tyr Arg Leu Glu Thr  
 50 55 60

Pro Ala Glu Val Val Phe Ser Pro Ala Pro Leu Arg Leu Ser Gly Pro  
 65 70 75 80

Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu Gln Pro  
 85 90 95

Ser Ser Phe Cys Gly Trp Asp Leu Pro Ala Arg Pro Arg Gly Leu Ser  
 100 105 110

Gly Phe Arg  
 115

&lt;210&gt; 564

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 564

Phe Thr Asn Lys Ser Cys Ser Lys Met Ser Ser Thr His Leu Tyr Lys  
 1 5 10 15

Gly Ser Asp Val Leu Cys Tyr Ala Arg Ser Ser Glu Ser Met Ser Leu  
 20 25 30

Ser Cys Gly Asp Val Ala Asn Ala Gly Arg Leu Thr Pro Arg Leu His  
 35 40 45

Leu Ala Arg Ser Ala Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro  
 50 55 60

Pro Arg Gly Ser Arg Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg  
 65 70 75 80

Thr Xaa Ser Leu Glu Asn His Lys Asn Ile Asp His Leu Ser Ser Asn  
                     85                                    90                                    95

Ser His Gly Lys Phe Arg Ile Tyr Gly Gln Asn Asp Ile Lys Ile  
                     100                                    105                                    110

<210> 565

<211> 80

<212> PRT

<213> Homo sapiens

<400> 565

Gln Asp Val Ile Tyr Thr Phe Val Gln Arg Phe Arg Arg Pro Met Leu  
     1                                    5                                    10                                    15

Cys Thr Ile Leu Arg Lys Tyr Glu Pro Val Val Arg Gly Arg Arg Lys  
                     20                                    25                                    30

Arg Trp Gln Ala His Pro Ser Ser Ala Phe Gly Lys Lys Arg Leu Pro  
                     35                                    40                                    45

Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu Gln Ala Ser  
                     50                                    55                                    60

His Ser Trp Arg Glu Pro Gly Pro Gln Asn Thr Phe Pro Arg Lys Pro  
     65                                    70                                    75                                    80

<210> 566

<211> 22

<212> PRT

<213> Homo sapiens

<400> 566

Arg Glu Glu Thr Asp Val Gly Glu Gly Gly Arg Pro Arg Gly Gly Gln  
     1                                    5                                    10                                    15

Ser Glu Gly Ala Arg Val  
                     20

<210> 567

<211> 27

<212> PRT

<213> Homo sapiens

<400> 567

Gly Pro Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu  
     1                                    5                                    10                                    15

Gln Pro Ser Ser Phe Cys Gly Trp Asp Leu Pro  
                     20                                    25

<210> 568  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 568  
 Met Ser Ser Thr His Leu Tyr Lys Gly Ser Asp Val Leu Cys Tyr Ala  
           1                  5                  10                  15  
 Arg Ser Ser Glu Ser Met Ser Leu  
                   20

<210> 569  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro Pro Arg Gly Ser Arg  
           1                  5                  10                  15  
 Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg Thr  
                   20                  25

<210> 570  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Arg Phe Arg Arg Pro Met Leu Cys Thr Ile Leu Arg Lys Tyr Glu Pro  
           1                  5                  10                  15  
 Val Val Arg Gly Arg Arg Lys Arg Trp  
                   20                  25

<210> 571  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Arg Leu Pro Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu  
           1                  5                  10                  15  
 Gln Ala Ser His Ser Trp Arg Glu  
                   20

<210> 572  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 572

Arg	Gly	Met	Arg	Gly	Arg	Trp	Leu	Val	Ser	Ser	Gly	Ala	Ala	Phe	Pro
1				5					10					15	

Ile	Pro	Leu	Asn	Gly	Phe	Cys	Glu	Ser	Arg	Glu	Phe	Phe	Pro	Asp	Ser
			20						25					30	

Gly	Ser	Val	Leu	Leu	His	Trp	Arg	Pro	Asn	Xaa	Val	Leu	Ile	Glu	Ile
		35					40						45		

Lys	Val	Phe	Gly	Ser	Arg	Ser	Gln	Ser	Leu	Ile	Ser	Ser	Lys	Asn	Leu
	50					55					60				

Lys	Thr	Ser	Leu	Thr	Phe	Ile	Tyr	Gly	Lys	Val	Glu	Glu	Val	Leu	Asn
65					70					75					80

Asn

&lt;210&gt; 573

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 573

Leu	Lys	Leu	Ser	Ser	Ala	Asp	Ser	Gln	Ala	Ile	Met	Asn	Ile	Phe	Ser
1				5					10					15	

Ala	Asp	Cys	Met	Pro	Arg	Leu	His	Ile	Ala	Leu	Gln	Thr	Glu	Met	Ile
			20					25					30		

Pro	Asn	Arg	Ala	Pro	Gln	Gly	Gly	Ala	Ala	Ala	Asn	Leu	Trp	His	Glu
	35					40						45			

Ala	Gln	Tyr	Arg	Arg	Leu	Pro	Phe	Ser	Arg	Ala	Pro	Glu	Xaa	Thr	Asp
	50					55					60				

Ala	His	Gln	Ala	Ser	Ala	Gln	Arg	Gly	Ala	Ala	Gln	Leu	Pro	Arg	Glu
65					70				75						80

Gln

&lt;210&gt; 574

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

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<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 574

Pro Ile Pro Leu Asn Gly Phe Cys Glu Ser Arg Glu Phe Phe Pro Asp  
1 5 10 15

Ser Gly Ser Val Leu Leu His Trp Arg Pro Asn Xaa  
20 25

<210> 575

<211> 29

<212> PRT

<213> Homo sapiens

<400> 575

Asn Ile Phe Ser Ala Asp Cys Met Pro Arg Leu His Ile Ala Leu Gln  
1 5 10 15

Thr Glu Met Ile Pro Asn Arg Ala Pro Gln Gly Gly Ala  
20 25

<210> 576

<211> 37

<212> PRT

<213> Homo sapiens

<400> 576

Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn  
1 5 10 15

Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly  
20 25 30

Trp Leu Ser Val Lys  
35

<210> 577

<211> 21

<212> PRT

<213> Homo sapiens

<400> 577

Lys Thr Arg Lys Leu Ile Asn Pro Glu Ala Ala Glu Arg Arg Trp Arg  
1 5 10 15

Asp Trp Asp Ser Arg  
20

<210> 578

<211> 83

<212> PRT

<213> Homo sapiens

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65

70

75

&lt;210&gt; 589

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

Lys Leu Leu Leu Val Pro Val Ile Ser Lys Arg Ile Ile Asn Ile Met  
 1 5 10 15

Ala His Gln Val Lys Pro Pro Ile Phe  
 20 25

&lt;210&gt; 590

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

Pro Glu Gln Lys Arg Leu His  
 1 5

&lt;210&gt; 591

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (352)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (356)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 591

Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp  
 1 5 10 15

Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu  
 20 25 30

Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile  
 35 40 45

Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile  
 50 55 60

His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val  
 65 70 75 80

Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr  
 85 90 95

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Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala  
 100 105 110  
 Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala  
 115 120 125  
 Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr  
 130 135 140  
 Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr  
 145 150 155 160  
 Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly  
 165 170 175  
 Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Val Phe Val Leu Leu  
 180 185 190  
 Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Ala Tyr Ser Thr Phe  
 195 200 205  
 Tyr Ile Val Gly Leu Ile Leu Ser Met Gln Ile Pro Phe Val Gly Phe  
 210 215 220  
 Gln Pro Ile Arg Thr Ser Glu His Met Ala Ala Ala Gly Val Phe Ala  
 225 230 235 240  
 Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg Asp Arg Leu Thr  
 245 250 255  
 Lys Gln Glu Phe Gln Thr Leu Phe Phe Leu Gly Val Ser Leu Ala Ala  
 260 265 270  
 Gly Ala Val Phe Leu Ser Val Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile  
 275 280 285  
 Ala Pro Trp Ser Gly Arg Phe Tyr Ser Leu Trp Asp Thr Gly Tyr Ala  
 290 295 300  
 Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser Glu His Gln Pro Thr  
 305 310 315 320  
 Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile Leu Val Cys Thr Phe  
 325 330 335  
 Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile Asn Asp Glu Arg Xaa  
 340 345 350  
 Phe Gly Lys Xaa Gly Phe  
 355

&lt;210&gt; 592

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 592

09018687.032894  
 09018687.032894

Glu Phe Asp Pro Trp Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser  
 1 5 10 15

His Gly Phe Tyr Glu Phe Leu Asn Trp Phe Asp  
 20 25

<210> 593

<211> 23

<212> PRT

<213> Homo sapiens

<400> 593

Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala Ala Cys Phe  
 1 5 10 15

Ile Ala Ile Val Pro Gly Tyr  
 20

<210> 594

<211> 22

<212> PRT

<213> Homo sapiens

<400> 594

Thr Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp  
 1 5 10 15

Thr Met Cys Cys Cys Leu  
 20

<210> 595

<211> 25

<212> PRT

<213> Homo sapiens

<400> 595

Gly Val Phe Ala Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg  
 1 5 10 15

Asp Arg Leu Thr Lys Gln Glu Phe Gln  
 20 25

<210> 596

<211> 27

<212> PRT

<213> Homo sapiens

<400> 596

Tyr Ser Leu Trp Asp Thr Gly Tyr Ala Lys Ile His Ile Pro Ile Ile  
 1 5 10 15

Ala Ser Val Ser Glu His Gln Pro Thr Thr Trp  
 20 25

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<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
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Met Gly His Met Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met  
1 5 10 15

Tyr Ala Trp Val Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val  
35 40 45

Thr Leu Met Asp Ala Pro Gly His Lys Asp Phe Ile Pro Asn Met Ile  
65 70 75 80

Arg Gly Glu Phe Glu Ala Gly Phe Glu Thr Gly Gly Gln Thr Arg Glu  
100 105 110

Val Asn Lys Met Asp Gln Val Asn Trp Gln Gln Glu Arg Phe Gln Glu  
130 135 140

Ile Thr Gly Lys Leu Gly His Phe Leu Lys Gln Ala Gly Phe Lys Glu  
145 150 155 160

Ser Asp Val Gly Phe Ile Pro Thr Ser Gly Leu Ser Gly Glu Asn Leu  
165 170 175

Ile Thr Arg Ser Gln Ser Ser Glu Leu Thr Lys Trp Tyr Lys Gly Leu  
180 185 190

Cys Leu Leu Glu Gln Ile Asp Ser Phe Lys Pro Pro Gln Arg Ser Ile  
195 200 205

Asp Lys Pro Phe Arg Leu Cys Val Ser Asp Val Phe Lys Asp Gln Gly  
210 215 220

Ser Gly Phe Cys Ile Thr Gly Lys Ile Glu Ala Gly Tyr Ile Gln Thr  
225 230 235 240

Gly Asp Arg Leu Leu Ala Met Pro Pro Asn Glu Thr Cys Thr Val Lys  
245 250 255

Gly Ile Thr Leu His Asp Glu Pro Val Asp Trp Ala Ala Ala Gly Asp  
260 265 270

His Val Ser Leu Thr Leu Val Gly Met Asp Ile Ile Lys Ile Asn Val  
275 280 285

Gly Cys Ile Phe Cys Gly Pro Lys Val Pro Ile Lys Ala Cys Thr Arg  
290 295 300

Phe Arg Ala Arg Ile Leu Ile Phe Asn Ile Glu Ile Pro Ile Thr Lys  
305 310 315 320

Gly Phe Pro Val Leu Leu His Tyr Gln Thr Val Ser Glu Pro Ala Val  
325 330 335

Ile Lys Arg Leu Ile Ser Val Leu Asn Lys Ser Thr Gly Glu Val Thr  
340 345 350

Lys Lys Lys Pro Lys Phe Leu Thr Lys Gly Gln Asn Ala Leu Val Glu  
355 360 365

Leu Gln Thr Gln Arg Pro Ile Ala Leu Glu Leu Tyr Lys Asp Phe Lys  
370 375 380

Glu Leu Gly Arg Phe Met Leu Arg Tyr Gly Gly Ser Thr Ile Ala Ala  
385 390 395 400

Gly Val Val Thr Glu Ile Lys Glu  
405

<210> 598

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 598

Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met His Lys Tyr Xaa  
1 5 10 15

Gln Glu Ser Lys Lys  
20

<210> 599

<211> 23

<212> PRT

<213> Homo sapiens

<400> 599

Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val Thr Met Asp Val  
1 5 10 15

Gly Met Thr Lys Phe Glu Thr

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<210> 600
<211> 22
<212> PRT
<213> Homo sapiens
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```
<210> 601
<211> 23
<212> PRT
<213> Homo sapiens
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<210> 602
<211> 23
<212> PRT
<213> Homo sapiens
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<210> 603
<211> 22
<212> PRT
<213> Homo sapiens
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```
<210> 604
<211> 23
<212> PRT
<213> Homo sapiens
```



Ser Thr Leu

<210> 608  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 608

Asn Gly Phe Phe Ser Phe Ser Met Tyr Ile Ile Leu Cys Gln Thr Phe  
 1 5 10 15

Phe Ser Val Ala Ala Leu Arg Trp Thr Gly Asp Ser Ile Gly Phe Ile  
 20 25 30

Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe Val Glu Gly  
 35 40 45

His Gln Ala Leu Gly Arg Gly Lys Trp Phe Tyr Lys Leu Val Leu Ser  
 50 55 60

Gly Ile Lys Glu Ile Tyr Asn Leu Tyr Tyr Leu Ile Val Ala Thr Ser  
 65 70 75 80

His Met Trp Phe Ser Asn Lys Ile Ser Ile Thr Ser Pro Thr Thr Phe  
 85 90 95

Ser Ser Leu Val Arg Ser Arg Pro Arg Glu Thr Val Pro Phe Ile Val  
 100 105 110

Phe Ser Ala Phe Tyr Lys Leu Arg  
 115 120

<210> 609  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 609

Ile Ile Leu Cys Gln Thr Phe Phe Ser Val Ala Ala Leu Arg Trp Thr  
 1 5 10 15

Gly Asp Ser Ile Gly  
 20

<210> 610  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 610

Gly Phe Ile Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe  
 1 5 10 15

Val Glu Gly His Gln  
 20

<210> 611

05810663.032804

<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 611  
 Gln Ala Leu Gly Arg Gly Lys Trp Phe Tyr Lys Leu Val Leu Ser Gly  
 1 5 10 15

Ile Lys Glu Ile  
 20

<210> 612  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Ile Tyr Asn Leu Tyr Tyr Leu Ile Val Ala Thr Ser His Met Trp Phe  
 1 5 10 15

Ser Asn Lys Ile Ser  
 20

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